

## How to Speak Avionics-ese\*

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\*Avionics-ese. Sometimes called AV-Speak. It's a confusing, sometimes frustrating language. That's why your friends at Rockwell Collins created this handy compendium of acronyms, terms and definitions. We hope it helps.  
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**1.xxV(ss)** The impending low speed stall speed. xx is typically a number between 0.06 and 0.10. 1.06 of stick shaker speed would be an example.

**1.3V(ss)** Target approach speed indicator. 1.3 of stick shaker speed.

**3-D, 4-D** Three or four dimension

**4096 Code** The octal base, four-digit code used between framing pulses of a reply to identify the aircraft or for general use and emergency codes (XPD)

**10 Base T** 10 Mbps base band data transmission over twisted copper wire

**A ( 1 )** Auto tuned NAVAID ( 2 ) Amperes ( 3 ) Aileron ( 4 ) At or Above (Altitude Suffix)

**A-SMGCS** Advanced Surface Movement Guidance and Control System

**A661** ARINC 661

**AAC** Aeronautical Administrative Communications

**AAD** Assigned Altitude Deviation

**AAI** Airline Avionics Institute

**AAL** Above Aerodome Level

**AAMP** Advanced Architecture Micro-Processor

**AATS** Aviation and Air Traffic Services

**AATT** Advanced Aviation Transportation Technology

**A/B** Autobrake

**ABE** ARINC 429 Bus Emulator

**ABM** Asynchronous Balanced Mode

**A-BPSK ( 1 )** Aeronautical Binary Phase Shift Keying ( 2 ) Aviation Binary Phase Shift Keying

**ABRV** Abbreviation

**ABS** Absolute

**AC ( 1 )** Advisory Circular ( 2 ) Alternating Current

**A/C** Aircraft

**ACA** Address Compression Algorithm

**ACAC** Air-Cooled Air Cooler

**ACAS** Airborne Collision Avoidance System

**ACARS** Aircraft Communications Addressing and Reporting System

**ACARS Polled Mode** An ACARS mode of operation in which the airborne system transmits only in response to received uplink messages (polls)

**ACC ( 1 )** Active Clearance Control. ( 2 ) Area Control Center

**Acclrm** Accelerometer

**ACCTS** Aviation Coordinating Committee for Telecommunications Services

**ACE ( 1 )** The control character meaning technical acknowledge ( 2 ) Actuator Control Electronics.  
( 3 ) Advanced Certification Equipment

**ACF ( 1 )** Area Control Facility ( 2 ) ACARS Convergence Function (ARINC 622)

**ACID** Aircraft Identification  
**ACIPS** Airfoil and Cowl Ice Protection System  
**ACK** The control character meaning technical acknowledgement of an uplink, used in an ACARS System  
**ACKNLGE** Acknowledge  
**ACMP** Alternating Current Motor Pump  
**ACMS** Aircraft Condition Monitoring System  
**ACO** Aircraft Certification Office  
**ACP** Audio Control Panel  
**ACRP** Aircraft Certification Regulatory Program  
**ACS** ( 1 ) Active Control System ( 2 ) Audio Control System  
**ACSG** Aeronautical Communications Sub-Group  
**ACT** Active  
**ACU** ( 1 ) Apron Control Unit ( 2 ) Antenna Control Unit ( 3 ) Autopilot Control Unit  
**A/D** Analog-To-Digital  
**AD** Administrative Domain  
**ADA** Computer Programming Language  
**ADAS** Automated Weather Observing System Data Acquisition System  
**ADATE** Advanced Design Adaptive Test Executive  
**ADC** ( 1 ) Air Data Computer: A computer that receives inputs from temperature sensors as well as static and pitot ports. Then it generates altitude, airspeed, vertical speed and several computed temperatures ( 2 ) Analog-to-Digital Converter  
**ADF** Automatic Direction Finder: Receiver that provides bearings to radio frequency transmitters in a compatible frequency range.  
**ADI** Attitude Director Indicator: A PFD display that provides pitch and roll information.  
**ADIRS** Air Data Inertial Reference System  
**ADIRU** Air Data Inertial Reference Unit  
**ADL** ( 1 ) Aeronautical Data Link ( 2 ) Airborne Data Loader (ARINC 615)  
**ADLP** ( 1 ) Airborne Data Link Protocol. ( 2 ) Aircraft Data Link Processor (MODE-S)  
**ADLS** Aeronautical Data Link Services  
**ADM** Air Data Module  
**ADMS** Airline Data Management System  
**ADNS** ARINC Data Network Service  
**ADP** Air Data Processor  
**ADPCM** Adaptive Pulse Code Modulation  
**ADRAS** Airplane Data Recovery and Analysis System  
**ADS** ( 1 ) Air Data System ( 2 ) Automatic Dependent Surveillance: A surveillance technique in which aircraft automatically provide, via data link, data derived from on-board navigation and position fixing systems, including aircraft identification, four dimensional position and additional data as appropriate ( 3 ) Audio Distribution System  
**ADS-A** Automatic Dependent Surveillance–Address .(aka ADS-C)  
**ADS-B** Automatic Dependent Surveillance–Broadcast  
**ADS-C** Automatic Dependent Surveillance–Contract .(aka ADS-A)  
**ADSEL** Address Selective. ASSR system electronically arranged to address each transponder selectively. Only a particular transponder will respond, thus avoiding garbling. ADSEL uses a monopulse technique to provide more accurate bearing measurement. ADSEL is compatible with DABS. (Refer to Mode S transponders.)  
**ADSP** Automatic Dependent Surveillance Panel  
**ADSU** ( 1 ) Automatic Dependent Surveillance System ( 2 ) Automatic Dependent Surveillance Unit  
**ADTN** Administrative Data Transmission Network  
**ADV** Advance  
**AECU** Audio Electronic Control Unit  
**AEEC** Airlines Electronic Engineering Committee  
**AEG** Aircraft Evaluation Group  
**AEP** ( 1 ) Audio Entertainment Player ( 2 ) Autopilot Engage Panel  
**AERA** Automated En Route traffic control  
**AES** Aircraft Earth Station  
**AEU** Auxiliary Equipment Unit  
**AF** Airway Facilities  
**AFC** ( 1 ) Automatic Frequency Compensation. ( 2 ) Automatic Frequency Control  
**AFCAS** Automatic Flight Control Augmentation System  
**AFCS** Automatic Flight Control System  
**AFD** ( 1 ) Adaptive Flight Display ( 2 ) Advanced Flight Deck ( 3 ) Autopilot Flight Director

**AFDC** Autopilot Flight Director Computer  
**AFDS** Autopilot Flight Director System  
**AFDX** Avionics Full Duplex Switched Ethernet  
**AFEPS** ACARS Front End Processing System  
**AFI** Authority Format Identifier  
**AFIS** ( 1 ) Airborne Flight Information System ( 2 ) Automatic Flight Information Service  
**AFM** Aircraft Flight Manual  
**AFN** ATS Facilities Notification  
**AFS** ( 1 ) Aeronautical Fixed Service ( 2 ) Airborne File Server ( 3 ) Automatic Flight System  
**AFSS** Automatic Flight Service Station  
**AFSK** Audio Frequency Shift Keying  
**AFTN** Aeronautical Fixed Telecommunications  
**AFTRCC** Aerospace and Flight Text Radio Coordinating Council  
**A/G** Air/Ground  
**AGACS** Automatic Ground-Air Communication System. It is also known as ATCSS or DATA LINK.  
**AGATE** Advanced General Aviation Transport Experiment  
**AGC** Automatic Gain Control. AGC is used to maintain the output level of the receiver.  
**AGIS** Air Ground Intermediate System  
**AGL** Above Ground Level  
**AGS** ARINC 661 Graphics Server  
**AH** Alert Height: A height above the runway based on the characteristics of the aircraft and its fail operational landing system, above which a Category III approach would be discontinued and a missed approach initiated if a failure occurred in one of the redundant parts of the fail operational landing system, or in the relevant ground equipment.  
**AHC** Attitude Heading Computer: A computer that is part of the AHRS. Generates information for the pitch and roll displays.  
**AHRS** Attitude/Heading Reference Systems: System which measures and outputs aircraft attitude and heading.  
**AHS** Attitude/Heading System: Either an AHRS or an IRS.  
**AIDS** Aircraft Integrated Data System  
**AIT** Advanced Intelligence Tape - used for the storage of digital video and audio files  
**AIRAC** Aeronautical Information Regulation and Control  
**AIV** Accumulator Isolation Valve  
**AIX** Advanced Interactive Executive  
**A-JPS** AFEPS Journal Processing System  
**A/L** Autoland  
**ALC** Automatic Level Control. A circuit used to maintain the output of a transmitter regardless of variations in the attenuation of the system.  
**ALE** Automatic Link Establishment  
**ALI** Altimeter  
**ALPA** Airline Pilots Association  
**ALS** ( 1 ) Application Layer Structure.  
( 2 ) Ambient Light Sensor  
**ALSIP** Clear  
**ALT** ( 1 ) Airborne Link Terminal ( 2 ) Alternate ( 3 ) Altimeter ( 4 ) Altitude  
**ALT AHC** Alternate Attitude Heading Computer  
**ALTHOLD** Altitude Hold Mode  
**Altitude** Height determined by barometric pressure  
**Altitude Ring** A continuous return across the display at a range equivalent to aircraft altitude (WXR)  
**ALTN** Alternate  
**ALTS** Altitude Select  
**ALTS CAP** Selected Altitude Capture: An autopilot flight director mode.  
**ALU** Arithmetic and Logic Unit  
**AM** Amplitude Modulation. A signal where the carrier signal is varied in amplitude to encode voice or data information.  
**AMASS** Airport Movement Area Safety System  
**AMAT** Aircraft Mount Alignment Detector  
**AMC** Avionics Maintenance Conference  
**AMCP** Aeronautical Mobile Communications Panel  
**AME** Amplitude Modulation Equivalent. An AM type signal that processes the modulated information signal and carrier frequency separately and then reconstructs the two signals to make an equivalent AM signal.  
**AMI** ( 1 ) Airline Modifiable Information ( 2 ) Alpha Margin Indicator: A device that displays the angle of attack.

**AMIU** Area Microphone Interface Unit  
**AMLCD** Active Matrix Liquid Crystal Display  
**AMM** Aircraft Maintenance Manual  
**AMP** ( 1 ) Audio Management Panel ( 2 ) Avionics Modernization Program  
**AMS** ( 1 ) Apron Management Service ( 2 ) Avionics Management Service  
**AMS(R)S** Aeronautical Mobile Satellite (Route) Service  
**AMSS** Aeronautical Mobile Satellite Service  
**AMTOSS** Aircraft Maintenance Task Oriented Support System. An automated data retrieval system.  
**AMTS** Aeronautical Message Transfer Service  
**AMU** Audio Management Unit  
**AMUX** Audio Multiplexer  
**ANC** Air Navigation Commission (ICAO)  
**Aneroid Capsule** An evacuated and sealed capsule or bellows that expands or contracts in response to changes in pressure.  
**ANICS** Alaskan NAS Interfacility Communication System  
**ANLP** ARINC Network Layer Protocol  
**ANP** Actual Navigation Performance: Measure of the current estimated navigation performance, excluding Flight Technical Error (FTE).  
**ANS** ( 1 ) Ambient Noise Sensor ( 2 ) Area Navigation System  
**ANSI** American National Standards Institute  
**ANSP** Air Navigation Service Provider  
**ANT** Antenna  
**ANTC** Advanced Networking Test Center  
**AOA** Angle Of Attack  
**AOCC** ( 1 ) Aeronautical Operational Control ( 2 ) Aircraft Operational Control ( 3 ) Airline Operational Control. ( 4 ) Airport Obstruction Chart ( 5 ) Airport Operational Communications  
**AOCC** Airline Operation Control Center  
**AOD** Audio on Demand  
**AODC** Age of Data, Clock (GPS term)  
**AODE** Age of Data, Ephemeris (GPS term)  
**AOG** Aircraft on Ground  
**AOHE** Air/Oil Heat Exchanger  
**AOM** Aircraft Operating Manual  
**AOP** ( 1 ) Aeronautical OSI Profile ( 2 ) Airline Operational Procedure  
**AOPA** Aircraft Owners and Pilots Association  
**AOPG** Aerodrome Operations Group  
**AOR** Atlantic Ocean Region  
**AOR-E** Atlantic Ocean Region-East  
**AOR-W** Atlantic Ocean Region-West  
**A/P** Autopilot .A computer commanded system for controlling aircraft control surfaces.  
**AP** Airport Location (ACARS/AFERS)  
**APA** ( 1 ) Allied Pilots Association ( 2 ) Autopilot Amplifier  
**APB** Auxiliary Power Breaker  
**APC** ( 1 ) Autopilot Computer ( 2 ) Aeronautical Public Correspondence ( 3 ) Aeronautical Passenger Communication  
**API** Application Programming Interface  
**APM** Aircraft Personality Module  
**APMS** Automated Performance Measurement System  
**APN** ARINC Packet Network  
**APP** ( 1 ) Approach Control ( 2 ) Autopilot Panel  
**App** Application  
**APPR** Approach: That segment of flight having to do with final descent and landing.  
**APR** Actual Performance Reserve  
**APRL** ATN Profile Requirement List  
**APS** Autopilot System  
**APU** Auxiliary Power Unit  
**APUC** Auxiliary Power Unit Controller  
**AQF** Avionics Qualification Facility  
**AQP** ( 1 ) Advanced Qualification Program ( 2 ) Avionics Qualification Procedure  
**A-QPSK** Aeronautical Quadrature Phase Shift Keying  
**AQS** Advanced Quality System

**ARAC** Aviation Rule making Advisory Committee  
**ARB** Arbitrary Waveform Generator  
**ARF** Airline Risk Factor  
**ARINC** Aeronautical Radio, INCorporated: Corporation in which the U.S. scheduled airlines are the major stockholders.  
**ARINC -XXX** Digital database protocols defined by ARINC committee.  
**ARMC** Area Regional Maintenance Center  
**ARP** ( 1 ) Aeronautical Recommended Practice ( 2 ) Air Data Reference Panel ( 3 ) Airport Reference Point: Point in space based on a particular altitude, waypoint and/or offset. The FMS makes calculations to guide the aircraft to that particular point.  
**ARPA** Advanced Research Projects Agency  
**ARPT** Airport  
**ARR** Arrival  
**ARS** Automated Radar Summary chart . These are hourly generated charts showing location and intensity of radar echoes.  
**ARTSR** Air Route Surveillance Radar  
**ART** Automatic Reserve Thrust  
**ARTT** Adaptive Radar Threshold Techniques  
**ARTCC** Air-Route Traffic Control Center. Approximately 20 centers cover the air traffic routes in the United States using numerous radars and radio communication sets.  
**ARTS** Automated Terminal Radar System  
**ARU** Audio Reproducer Unit  
**ASA** ( 1 ) Aircraft Separation Assurance ( 2 ) Autoland Status Annunciator (AFDS)  
**ASAA** AC RS System Access Approval (AEEC)  
**ASAP** Aviation Safety/Accident Prevention  
**ASAS** Aircraft Separation Assurance System (AEEC)  
**ASCII** American Standard Code for Information Interchange  
**ASCPC** Air Supply and Cabin Pressure Controllers  
**ASD** Aircraft Situation Display  
**ASDE** Airport Surface Detection Equipment  
**ASDL** Aeronautical Satellite Data Link  
**ASE** Altimetry System Error  
**ASECNA** Agency for the Security of Aerial Navigation in Africa and Madagascar  
**ASEL** Altitude Select: An autopilot flight/director mode.  
**ASG** ARINC Signal Gateway  
**ASI** ( 1 ) Avionics System Integration ( 2 ) Airplane Systems Integrator  
**ASIC** Application Specific Integrated Circuit  
**ASLS** Avionics System LAN Switch  
**ASM** ( 1 ) Airspace Management ( 2 ) Autothrottle Servo Motor ( 3 ) Avionics Specific Module . ( 4 ) Application Specific Module  
**ASN.1** Abstract Syntax Notation One  
**ASOS** Automated Surface Observing System  
**ASP** ( 1 ) Altitude Set Panel ( 2 ) Aeronautical Fixed Service (AFS) Systems Planning for data interchange  
**ASPP** Aeronautical Fixed Service (AFS) Systems Planning for data interchange Panel  
**A-SMGCS** Advanced Surface Movement Guidance and Control Systems  
**ASR** Airport Surveillance Radar  
**ASRS** Aviation Safety Reporting System  
**ASSAP** Airborne Surveillance and Separation Assurance Processing  
**ASSTC** Aerospace Simulation and Systems Test Center  
**ASTF** Airspace System Task Force  
**ASU** ( 1 ) Avionics Switching Unit ( 2 ) Application Specific Unit  
**ASV** Advanced Super View  
**ASSV** Alternate Source Selection Valve  
**ASTA** Airport Surface Traffic Automation  
**AT** ( 1 ) Air Traffic ( 2 ) Air Transport  
**A/T** Auto throttle  
**ATA** ( 1 ) Actual Time of Arrival ( 2 ) Air Transport Association  
**ATC** Air Traffic Control  
**ATCA** Air Traffic Control Association  
**ATCC** Air Traffic Control Center  
**ATCRBS** Air Traffic Control Radar Beacon System

**ATCSS** Air Traffic Control Signaling System .A system to provide information between the pilot and air traffic control using the VHF communications transceiver in conjunction with data link equipment.

**ATD** Actual Time of Departure

**ATE** Automatic Test Equipment

**ATFM** Air Traffic Flow Management

**ATHR** Autothrust System

**ATHS** Automatic Target Handoff System

**ATI** Instrument Size Unit of Measure

**ATIS** ( 1 ) Air Traffic Information Service ( 2 ) Automatic Terminal Information Service. ( 3 ) Automatic Terminal Information System

**ATLAS** Abbreviated Test Language for Avionics Systems

**ATM** ( 1 ) Air Traffic Management ( 2 ) Asynchronous Transfer Mode

**ATMCP** Air Traffic Management Concept Panel (ICAO)

**ATN** Aeronautical Telecommunications Network

**ATN P** Aeronautical Telecommunication Network Panel

**ATP** Acceptance Test Procedure (Air Transport)

**ATR** Air Transport Racking

**ATS** ( 1 ) Air Traffic Services ( 2 ) Air Turbine Starter ( 3 ) Auto throttle System ( 4 ) Air Transport System

**ATSC** Air Traffic Service Communication

**ATSGF** Air Traffic Services Geographic Filter

**ATSM** Air Traffic Services Message Processor

**ATSU** Air Traffic Services Unit

**ATT** Attitude

**AUO** Airspace User Operations

**AUTO** Automatic

**AUTOTILT** Mechanism that automatically tilts the weather radar.

**AUX** Auxiliary

**AV** Audio-Visual

**AVAIL** Available

**AVIONICS** Aviation Electronics: Any group of aircraft electronic devices.

**AVLAN** Avionics Local Area Network

**AVLC** Aviation VHF Link Control

**AVM** Airborne Vibration Monitor

**AVOL** Aerodrome Visibility Operational Level

**AVPAC** Aviation Packet Communication

**AWACS** Airborne Warning and Control System

**AWAS** Automated Weather Advisory Station

**AWG** American Wire Gauge

**AWIN** Aviation Weather Information

**AWIPS** Advanced Weather Interactive Processing System

**AWM** Audio Warning Mixer

**AWO** All Weather Operations

**AWOP** All Weather Operations Panel

**AWOS** Automated Weather Observation System. A system that gathers surface weather information and transmits the information to the pilot via VOR, Comm Freq or telephone lines.

**AZ** Azimuth: Distance in degrees measured clockwise from North.

**B** At or Below (Altitude suffix)

**BACKCOURSE** An approach from the end of the runway opposite the front localizer. Normally in this type of approach, there is no glideslope available.

**Bandwidth** The difference between the highest and lowest frequency components of a signal.

**B-RNAV** Basic Area Navigation

**BAP** Bank Angle Protection

**BARO** Barometric

**Baron- Corrected Altitude** Pressure altitude-corrected local barometric pressure.

**BATAP** Type B Application to Application Protocol

**BAZ** Back Azimuth: Same concept as Backcourse except, the pilot uses the Microwave Landing System (MLS). An MLS BAZ transmitter on the ground is required.

**BB** Base Band

**B/C** Backcourse

**BCD** Binary Coded Decimal. A coding system in which each digit from 0 to 9 is represented by a four bit

binary number.

**BCRS** Back Course

**BCS** Block Check Sequence. BCS is a cyclic code that is used as reference bits in an error detection process.

**bCSU b@ckCHANNEL SERVER**

**BDI** Bearing Distance Indicator

**BDMIS** Business Data Management and Invoicing

**Beam Width** The beam width is the width of the beam as measured at the half-power points of the radiated signal (WXR).

**Bearing** The direction of a point or navigational aid measured clockwise from a reference through 360°.

**BEDS** Boeing Electronic Delivery System

**BEL** Below

**BEP** Back-End Processor

**BEPMS** Back-End Processor Management System

**BER** Bite Error Rate

**BFE** Buyer Furnished Equipment

**BFO** Beat Frequency Oscillator. An oscillator that produces a signal to be mixed with the received frequency to produce an audible beat note, for the purpose of decoding the Morse code identifier of an NDB. The oscillator produces frequencies equal to the sum and difference of the combined frequencies.

**BGAN** Broadband Global Area Network

**BGI** Bus Grant Inhibit. A term used in CAPS transfer bus processing.

**BGP** Border Gateway Protocol

**BI** Burn-In

**BiGS** Bilingual Ground Station (ACARS and VDML2)

**Binary** Base-2 counting system. Numbers include 0,1.

**BIS** Boundary Intermediate System

**BISMS** BIS Management System

**BIST** Built-In Self Test

**Bit** A binary digit. Smallest data unit in a microprocessor system.

**BIT** Built-In-Test

**BITE** Built-In-Test Equipment

**BL** Black Label

**BLK** ( 1 ) Black ( 2 ) Block

**BLS** Bezel Light Sensor

**BMV** Brake Metering Valve

**BNR** Binary

**BNS** Boundary Notification System (Squitters)

**BOC** Bottom of Climb

**BOM** Bill of Material

**BOP** Bit Oriented Protocol

**Boresighting** The process of aligning a directional antenna system.

**BP** ( 1 ) BITE Processor ( 2 ) Bottom Plug

**BPCU** Bus Power Control Unit

**bps** bites per second

**Bps** Bytes per second

**BPSK** Binary Phase Shift Keying

**BR** Bridge

**BRG** Bearing

**BRI** Basic Rate Interface

**BRNAV** Basic Area Navigation

**BRS** Business & Regional Systems

**BRT** Brightness

**BSCU** Brake System Control Unit

**BSN** Backbone Subnetwork

**BSP** Board Support Package

**BSU** ( 1 ) Beam Steering Unit ( 2 ) Bypass Switch Unit

**BTB** Bus Tie Breaker

**BTMU** Brake Temperature Monitor Unit

**BTU** British Thermal Units

**BWAN** Backup WAN

**Byte** A grouping of eight bits.

**C** Celsius  
**C&C** Command and Control  
**C&W** Control and Warning  
**CAA** Civil Aviation Authority. A regulatory agency in the United Kingdom.  
**CAAC** Civil Aviation Administration of China  
**CAC** Caution Advisory Computer  
**C/A Code** ( 1 ) Course Acquisition Code ( 2 ) GPS Course Acquisition Code  
**CACP** Cabin Area Control Panel  
**CAD** ( 1 ) Computer Aided Design. ( 2 ) Combiner Alignment Detector  
**CADAG** Communications Automation and Data Link  
**CAE** Component Application Engineer  
**CAF** Crew Alerting Function  
**CAGE** Commercial Avionics GPS Engine  
**CAH** Cabin Attendant Handsets  
**CAI** Caution Annunciator Indicator  
**Calibrated Airspeed (CAS)** Corrected for instrument errors and errors due to position or location of the pressure source. At standard sea level conditions, CAS is equal to true airspeed (TAS).  
**CALSEL** A variation of the SELCAL system in which the SELCAL signal is combined with a special gating to produce an automatic function by the receiver. This system is only a proposal and not yet implemented.  
**CALVER** Calibration Verification  
**CAM** ( 1 ) Computer Aided ( 2 ) Cockpit Area microphone ( 3 ) Manufacturing  
**CANPA** Constant Angle Non-Precision Approach  
**CAPT** Captain  
**CARERI** Chinese Aeronautical Radio Electronics Research Institute  
**Carrier** An ac signal that can be modulated by changing the amplitude, frequency or pulse of the signal.  
**CAS** ( 1 ) Collision Avoidance System ( 2 ) Computed Airspeed ( 3 ) Crew Alerting System .  
( 4 ) Collins Aviation Services (5) See Calibrated Airspeed above  
**CASE** Computer Aided Software Engineering  
**CAT** (1) Categories (I, II, III) for Visibility Requirements ( 2 ) Clear Air Turbulence ( 3 ) Computer Aided Testing  
**CAT I** Operational performance Category I. An ILS facility providing operation down to a 60-meter (200 feet) decision height and with runway visual range not less than 800 meters (2600 feet) and a high probability of approach success.  
**CAT I Enhanced** An ILS Approach to lower-than-standard Category I and in some cases to Category II, minimums, based on guidance-to-touchdown provided by a Category III-capable Head-up Guidance System, per FAA Order 8400.13.  
**CAT II** Operational performance Category II. An ILS facility providing operation down to a 30-meter (100 feet) decision height and with runway visual range not less than 400 meters (1200 feet) and a high probability of approach success.  
**CAT III a** Operational performance Category III a. An ILS facility providing operation with no decision height limit to and along the surface of the runway with external visual reference during final phase of landing and with a runway visual range of not less than 200 meters (700 feet).  
**CAT III b** Operational performance Category III b. An ILS facility providing operation with no decision height limit to and along the surface of the runway without reliance on external visual reference; and subsequently taxiing with external visual range of not less than 50 meters (150 feet).  
**CAT III c** Operational performance Category III c. An ILS facility providing operation with no decision height limit to and along the surface of the runway and taxiways without reliance on external visual reference.  
**CATEVS** Clear Air Turbulence Enhanced Vision System  
**C-BAND** The frequency range between 4,000 and 8,000 MHz.  
**CBIT** Continuous Built-In-Test  
**CBT** Computer-Based Training  
**CC** C-Check  
**CCA** Circuit Card Assembly  
**CCB** ( 1 ) Configuration Control Board ( 2 ) Converter Circuit Breaker  
**CCD** ( 1 ) Charged Coupled Device ( 2 ) Cursor Control Device  
**CCIR** International Radio Consultative Committee  
**CCITT** Consultative Committee International Telephone and Telegraph  
**CCM** Common Computing Module  
**CCMS** Content Compilation Management System.  
**CCR** Common Computing Resource  
**CCS** ( 1 ) Cabin Communication System ( 2 ) Common Communication System ( 3 ) Common Core System  
**CCU** Control and Compensation Unit  
**CCW** Counterclockwise  
**CD** ( 1 ) Carrier Detect ( 2 ) Chrominance Difference ( 3 ) Compact Disc

**CDA** ( 1 ) Coordinating Design Authority. ( 2 ) Continuous Descent Arrival  
**CDBR** Cabin Data Bus Repeater  
**CDG** Configuration Database Generator  
**CDI** Course Deviation Indicator  
**CDL** Cabin Discrepancy Log  
**CDM** Collaborative Decision Making  
**CDMA** Code Division Multiple Access  
**CDMS** Collaborative Decision Making System  
**CDN** ( 1 ) Canadian Domestic Network (VHF ACARS) ( 2 ) Common Data Network  
**CDP** Continuous Data Program  
**CDR** Critical Design Review  
**CD-ROM** Compact Disc Read-Only Memory  
**CDS** ( 1 ) Cabin Distribution System ( 2 ) Common Display System  
**CDTI** Cockpit Display of Traffic Information  
**CDU** Control Display Unit: An input control/display usually part of a Flight Management System (FMS).  
**CEPT** Conference Européenne des Postes et Télécommunications  
**CES** Cabin Equipment Software  
**CEU** Checklist Entry Unit  
**CF** Change Field  
**CFDIU** Central Fault Display Interface Unit  
**CFDS** Centralized Fault Display System  
**CFIT** Controlled Flight Into Terrain  
**cfm** Cubic Feet per Minute  
**CFMU** Central Flow Management Unit  
**CFS** Cabin File Server  
**CG** Center of Gravity  
**CGI** Connecting Gate Information  
**CHAN** Channel  
**CHG** ( 1 ) Change ( 2 ) Charge  
**CHI** Computer Human Interface  
**CHIS** Center Hydraulic Isolation System  
**CHOL** Collins High Order Language  
**CHP** Course Heading Panel  
**CI** ( 1 ) Cabin Interphone ( 2 ) Configuration Item  
**CID** Category Interaction Diagram  
**CIDB** Checklist Input DataBase  
**CIDIN** Common ICAO Data Interchange Network  
**CIDS** Cabin Interphone Distribution System  
**CIE** Commission Internationale de l'Eclairage  
**CIO** Common Input/Output  
**CIS** ( 1 ) Corporate Information System ( 2 ) Crew Information System  
**CISS** Configurable Integrated Surveillance System  
**CK** Check  
**CKLST** Checklist  
**CLB** ( 1 ) Climb ( 2 ) Closed-Loop Boolean  
**CLK** Clock  
**CLNP** Connectionless Network Protocol  
**CLNS** Connectionless Network Service  
**Cloud Droplets** Water or ice particles having radii smaller than 0.01 cm  
**CLP** Control Law Processor  
**CLR** Clear  
**CLTP** Connectionless Mode Transport Protocol  
**CM** ( 1 ) Context Management ( 2 ) Configuration Management ( 3 ) Conflict Management  
**CMA** ( 1 ) Central Maintenance Application ( 2 ) Contract Maintenance Agreement  
**CMC** Central Maintenance Computer  
**CMCF** Central Maintenance Computer Function  
**CMCS** Central Maintenance Computer System  
**CMD** Command  
**CMF** ( 1 ) Common Message Format ( 2 ) Communication Management Function

**CMM** ( 1 ) Common Mode Monitor. A type of monitor common to automatic flight control systems. ( 2 ) Component Maintenance Manuals

**CMN** Control Motion Noise

**CMP** Configuration Management Plan

**CMS** Cabin Management System

**CMOS** Complementary Metal Oxide Semiconductor

**CMRS** Commercial Mobile Radio Service (cellular phone network)

**CMU** Communications Management Unit

**CNDB** Customized Navigation Database

**CNES** Centre national d'études spatiales

**C/NO** Carrier-to-Noise Density Ratio

**CNP** Comm/Nav/Pulse

**CNS** Communication, Navigation, Surveillance

**CNS/ATM** Communication, Navigation, Surveillance/Air Traffic Management

**Coasted Track** A track that is continued based on previous track characteristics in the absence of surveillance data reports (TCAS).

**CODEC** Coder/Decoder

**COE** Combiner Optical Element

**COM** Cockpit Operating Manual

**COM/MET/OPS** Communications /Meteorological /Operations

**COMM** Communications

**COMP** Communication Of Modification Plan

**Compass**

**Locator** A low-powered radio beacon, used in conjunction with ILS. A compass locator has a two-letter identification and a range of at least 15 miles.

**COMP** Compressor

**CON** Continuous

**Cone of Confusion** An inverted conical shaped area extending vertically above a VOR ground facility that is void of the bearing signal.

**CONOPS** Concept of Operations

**Consolan** A low-frequency, keyed, CW, short baseline system using two antennas to radiate a daisyshaped pattern for navigational aid purposes. The frequency range is in the 300 kHz region . It is in limited use today.

**Contour** Contourisro – contour refers to a weather radar display presentation that blanks the echo returns in the center of a storm cell. The area blanked out is called contour and corresponds to the return levels that exceed a predetermined threshold.

**CONUS** Continental United States

**COP** Character-Oriented Protocol

**COPs** Communities of Practice

**CoRE** Common Reusable Elements

**COROUTE** Company Route

**Correction (SSEC)** A correction is applied to static source pressure measurements to partly or completely correct for pressure errors that are caused by airflow changes. It is computed as a function of Mach and altitude based on measured errors for a particular static system.

**Corrective Advisory** A resolution advisory that instructs the pilot to deviate from current vertical rate (e. g. DON'T CLIMB when the aircraft is climbing). (TCAS)

**COS** Checklist Operational Software

**COTP** Connection Oriented Transport Protocol

**COTS** Commercial Off-The-Shelf

**CP** ( 1 ) Circular Polarization ( 2 ) Conflict Probe ( 3 ) Control Panel

**CPA** Closest Point of Approach

**CPAS** Collins Portable Access System

**CPC** ( 1 ) Cabin Pressure Controller ( 2 ) Controller Pilot Communication ( 3 ) Cursor Position Control

**cPCI** Compact Peripheral Component Interconnect

**CPCI** Computer Program Configuration Item. A CPCI number identifies the configuration of a computer software program.

**CPCS** Cabin Pressure Control System

**CPDLC** Controller-Pilot Data Link Communications

**CPE** Circular Position Error

**CPM** ( 1 ) Core Processor Module ( 2 ) Crash Protected Memory

**CPN** Collins Part Number

**CPR** Common Processing Resource

**CPRSR** Compressor  
**CPS** Cabin Pressure Sensor  
**CPSR** Contractor Purchasing System Review  
**CPU** Central Processing Unit  
**C/R** Command/Response  
**CR** ( 1 ) Change Request ( 2 ) Contrast Ratio  
**CRC** ( 1 ) Cyclic Redundancy Checking ( 2 ) Cyclic Redundancy Code  
**CRES** Corrosion Resistant Steel  
**CRD** Current Routing Domain  
**CRDA** Cooperative Research and Development Agreement  
**CRM** ( 1 ) Cockpit Resource Management ( 2 ) Collision Risk Model ( 3 ) Crew Resource Management  
**CRPA** Controlled Reception Pattern Antenna  
**CRR** Cutover Readiness Review  
**CRS** Course  
**CRT** Cathode Ray Tube  
**CRU** Computer Receiver Unit  
**CRZ** Cruise  
**CS** ( 1 ) Common Service ( 2 ) Collins Commercial Systems Engineering  
**CSC** Cargo System Controller  
**CSCI** Computer Software Configuration Item  
**CSCP** Cabin System Control Panel  
**CSDB** Commercial Standard Data Bus  
**CSDS** Cargo Smoke Detector System  
**CSEU** Control Systems Electronics Unit  
**CSF** Command/Status Frame  
**CSMA** Carrier Sense Multiple Access  
**CSMA/CD** Carrier Sense Multiple Access with Collision  
**CSMM** Crash Survivable Memory Modules  
**CSMU** Cabin System Management Unit  
**C/SOIT** Communications/Surveillance Operational Implementation Team  
**CSU** Configuration Strapping Unit: A LRU used to select installed system features on a particular aircraft.  
**CT** Chromaticity Tolerance  
**CTA** ( 1 ) Control Area (ICAO Term) ( 2 ) Controlled Time of Arrival  
**CTAF** Common Traffic Advisory Frequency  
**CTAI** Cowl Thermal Anti-Icing  
**CTAS** Center Tracon Automation System  
**CTC** Cabin Temperature Controller  
**CTD** Cross Track Deviation  
**CTL** Control: Refers to a radio frequency controller  
**CTMO** Centralized Air Traffic Flow Management Organization  
**CTOL** Conventional Take Off and Landing  
**CTR** ( 1 ) Center ( 2 ) Control zone  
**CTRD** Configuration Test Requirements Document  
**CTRL** Control  
**CTS** Clear To Send  
**CTU** Cabin Telecommunications Unit  
**CU** ( 1 ) Channel Utilization ( 2 ) Combiner Unit (HUD) ( 3 ) Control Unit  
**C/UT** Code/Unit Test  
**CV/DFDR** Cockpit Voice and Digital Flight Data Recorder  
**CVR** Cockpit Voice Recorder  
**CVRCP** Cockpit Voice Recorder Control Panel  
**CW** ( 1 ) Clockwise (cw) ( 2 ) Continuous Wave. A continuous train of identical oscillations.  
**CWC** Comparator Warning Computer  
**CWI** Continuous Wave Interference  
**CWM** Comparator Warning Monitor  
**CWP** ( 1 ) Controlled Working Position ( 2 ) Controller Working Position  
**CWS** Control Wheel Steering  
**D8PSK** Differential Eight Phase Shift Keying  
**D&O** Description and Operation  
**DA** ( 1 ) Descent Advisor ( 2 ) Drift Angle

**D/A** Digital-to-Analog  
**DABS** Discrete Addressable Beacon System  
**DADC** Digital Air Data Computer  
**DADS** Digital Air Data System  
**DAP** Digital Service Access Product  
**DAPs** Downlink of Aircraft Parameters  
**DAR** Designated Airworthiness Representative-A designation of authority by the FAA, authorized under FAR Part 183, Subpart C.  
**DARP** Dynamic Aircraft Route Planning  
**DARC** Direct Access Radar Channel. An independent backup to main ATC computers.  
**DARPA** Defense Advanced Research Projects Agency  
**DARPS** Dynamic Aircraft Route Planning Study  
**DAS** Designated Alteration Station: A designation of Authority authorized by the FAA under FAR Part 21, Subpart M.  
**Data Link** A system that allows exchange of digital data over an RF link. ATCSS is a data link system used by the air traffic control system. ACARS is a data link system used by airline command, control and management system , using VHF communication frequencies.  
**D-ATIS** Digital Automatic Terminal Information System  
**DAU** ( 1 ) Data Acquisition Unit ( 2 ) DBS Antenna Unit  
**DB** Database  
**dB** Decibel  
**dBA** Decibels Adjusted  
**DBi** ( 1 ) Decibels above isotopic circular ( 2 ) Decibels referenced to an isotopic antenna  
**DBI** Downlink Block Identifier  
**dBm** Decibel(s) below 1 milliwatt  
**DBMX** Database Management System  
**DBS** Direct Broadcast Satellite  
**DBw** Decibels referenced to 1 watt  
**dBW** Decibel-Watts  
**DBU** Database Unit  
**DC** Direct Current  
**DCA** Display and Crew Alerting system  
**DCAS** Digital Control Audio System  
**DCB** Demand and Capacity Balancing  
**DCD** Double Channel Duplex. A communication system using two RF channels, one channel for receive and one channel for transmit operations, for simultaneous communication.  
**DCE** Data Communications Equipment  
**DCGF** Data Conversion Gateway Function  
**DCL** Departure Clearance  
**DCMF** Data Communication Management Function  
**DCMS** Data Communication Management System  
**DCN** ( 1 ) Design Change Notice ( 2 ) Document Change Notice ( 3 ) Drawing Change Notice  
**DCP** Display Control Panel: Used to operate modes of EFIS system.  
**DCS** Double Channel Simplex. A communication system using two RF channels for non-simultaneous communication. One channel is disabled while the other channel is used to transmit.  
**DCU** Data Concentrator Unit  
**DCV** Directional Control Valve  
**DD** ( 1 ) Data Delivery ( 2 ) Data Dictionary  
**DDA** ( 1 ) Digital Differential Analyzer ( 2 ) Distance Data Adapter  
**DDD** Dual Disk Drive  
**DDI** Direct Dial Indicator  
**DDIB** Decoder Digital Interface Box  
**DDM** Difference in Depth of Modulation, a measurement used in conjunction with ILS signals.  
**DDP** Declarations of Design and Performance. A control document required by the United Kingdom Civil Aviation Authority (CAA) for certification of avionics equipment.  
**DDR** Draft Document Review  
**DDS** Direct Digital Synthesizer  
**DDT** Downlink Data Transfer  
**DDTC** Data Link Delivery of Expected Taxi Clearances  
**DDU** Display Drive Unit

**DEB** Design Eye Box. The three dimensional volume in space surrounding the Design Eye Position from which the HUD information can be viewed.

**DECCA** A navigation system widely used by shipping in Europe. The ground facilities consist of a master station and several slave stations.

**Decimal** Base-10 counting system. Numbers include 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

**ded** Dedicated

**DEFDARS** Digital Expandable Flight Data Acquisition and Recording System

**DEFL** Deflection

**DEG** Degree

**DEL** Delete

**Demand Mode** An ACARS mode of operation in which communications may be initiated by the ground processor or the airborne system.

**DEP** ( 1 ) Departure ( 2 ) Design Eye Position. The position at each pilot's station from which a seated pilot achieves the optimum combination of outside visibility and instrument scan.

**DER** Designated Engineering Representative: Designation of authority by the FAA authorized under FAR Part 183, Subpart B.

**DES** Descent

**DESCR** Description

**Desensitization** TCAS sensitivity level (threat volume) reduction

**DES** Descent: An autopilot Flight director mode.

**DEST** Destination

**DEV** Deviation

**DF** Definition File

**DFA** Direction Finding Antenna

**DFCS** Digital Flight Control System

**DFDAF** Digital Flight Data Acquisition Function

**DFDAMU** Digital Flight Data Acquisition Management Unit

**DFDAU** Digital Flight Data Acquisition Unit. The DFDAU samples, conditions and digitizes the flight data.

**DFDR** Digital Flight Data Recorder

**DFDU** Digital Flight Data Unit

**DFIDU** Dual Function Interactive Display Unit

**DFIU** Digital Flight Instrument Unit

**DFS** Digital Frequency Select

**DFU** Digital Function Unit

**DG** Directional Gyro: Mode of AHS operation that provides heading data without the benefit of a flux (AHS) or normal alignment (IRS).

**DGAC** Direction Generale de l'Aviation Civile (France's Civil Aviation Agency).

**DGNSS** Differential Global Navigation Satellite System

**DGPS** Differential Global Positioning System

**DH** ( 1 ) Dataflash Header ( 2 ) Decision Height: Specified height in the precision approach at which a missed approach must be initiated if the required visual reference to continue the approach has not been established.

**DI** Data Interrupt

**DIAGS** Diagrams

**DIB** Digital Interface Box

**DID** Data Item Description

**DIP** ( 1 ) Data Interrupt Program ( 2 ) Dual In-line Package. The most common package configuration for integrated circuits.

**DIR** ( 1 ) Direct ( 2 ) Director ( 3 ) Direction

**Directed Mode** A DME operating mode that allows an FMCS to select one to five DME stations for interrogation.

**DIR/INTC** Direct Intercept

**DISC** Disconnect

**DISCH** Discharge

**DISCR** Discrepancy

**DISCRETES** A general term for a single wire signal that is either off or on.

**DISP** Display

**DIST** Distance

**DITS** Data Information Transfer System

**DL** ( 1 ) Data Link ( 2 ) Downlink

**DLAP** Data Link Application Processor

**DLC** Data Link Control Display Unit  
**DLCI** Data Link Control Identifier  
**DLE** Data Link Entity  
**DLGF** Data Load Gateway Function  
**DLI** Data Link Interpreter program  
**DLK** Data Link (AEEC)  
**DLL** ( 1 ) Data Link Library .( 2 ) Dynamic Link Library  
**DLM** Data Link Management Unit  
**DLME** Data Link and Message Engineering  
**DL/MSU** Data Loader/Mass Storage Unit  
**DLODS** Duct Leak and Overheat Detection  
**DLP** Data Link Processor  
**DLS** Data Load System  
**DLSP** Data Link Service Provider  
**DLT** Digital Lineal Tape-used for the storage of video and audio files  
**DLU** Download Unit  
**DM** Disconnected Mode  
**DMA** Direct Memory Access  
**DME** Distance Measuring Equipment. A system that provides distance information from a ground station to an aircraft.  
**DME/N** Abbreviation for a DME normal system  
**DME/P** Abbreviation for a DME precision system  
**DME Search** In this mode, the DME scans from 0 mile to the outer range for a reply pulse pair after transmitting an interrogation pulse pair.  
**DMF** Data Management Function  
**DMIR** Designated Manufacturing Inspection Representative  
**DMM** ( 1 ) Data Memory Module .( 2 ) Digital Multimeter  
**DMN** Data Multiplexing Network  
**DMS** Debris Monitoring Sensor  
**DMU** Data Management Unit  
**DO-160** RTCA Document 160, Environmental Conditions and Test Procedures for Airborne Equipment, Issued 12/04/89  
**DO-178** RTCA document 178, Software Considerations in Airborne Systems and Equipment Cert Issued 03/22/85  
**DOA** Delegation Option Authorization: A delegation of authority authorized by the FAA under FAR Part 21, Subpart J.  
**DOC** Documentation  
**DOCSIS** Data Over Cable Service Interface Specifications  
**DOD** Department of Defense  
**DOORS** Dynamic Object Orientated Requirements System  
**Doppler Effect** The change in frequency observed at the receiver when the transmitter and receiver are in motion relative to each other.  
**DOS** Disk Operating System  
**DOT** Department of Transportation  
**DOTS** Dynamic Ocean Tracking System  
**Downlink** The radio transmission path downward from the aircraft to the earth.  
**DP** Departure Procedures  
**DPAT** Boeing Engineering Process Council Display Process Action Team  
**DPCU** Digital Passenger Control Unit  
**Dpi** dots per inch  
**DPP** Decision Point Process  
**DPR** Dual Port RAM  
**DPSK** Differential Phase Shift Keying  
**DQG** Digital Quartz Gyro  
**DR** ( 1 ) Data Reconing . ( 2 ) Data Receptacle . ( 3 ) Dead Reckoning: The worst degraded mode of FMS navigation. DR is displayed when no raw position data is received by the FMS for a set time delay. In such situations, position is computed by monitoring speed and direction since last known position.  
**DRER** Designated Radio Engineering Representative (FAA)  
**Drift Angle** The angle between heading and track. It is due to the effect of wind currents. Sometimes called the crab angle.  
**DRN** Document Release Notice  
**DSAD** Digital Service Access Device  
**DSARC** Defense System Acquisition Review Cycle  
**DSB** Double Side Band. An AM signal with the carrier removed. Requires the same bandwidth as the AM signal.  
**DSDU** Data Signal Display Unit

**DSF** Display System Function  
**DSP** ( 1 ) Digital Signal Processor . ( 2 ) Display Select Panel . ( 3 ) Domain Specific Part  
**DSPDRV** Display Driver  
**DSPY** Display (annunciation on CDU)  
**DSR** Display System Replacement  
**DSS** Decision Support Systems  
**DSSS** Direct Sequence Spread Spectrum  
**DST** Decision Support Tool  
**DSU** ( 1 ) Data Signaling Unit . ( 2 ) Domain Service Unit  
**DTC** Design To Cost  
**DTD** ( 1 ) Data Terminal Display ( 2 ) Document Type Definition  
**DTE** Data Terminal Equipment  
**DT&E** Development Test and Evaluation  
**DTG** Distance-to-go  
**DTK** Desired Track  
**DTMF** Dual Tone Multi-Frequency  
**DTM** Demonstration Test Milestone  
**DTPDU** Data Protocol Data Unit  
**DTU** Data Transfer Unit  
**DU** Display Unit  
**Dual Mode DME** An airborne DMERT capable of processing . DME/N and DME/P ground station signals. Operation is in the L-band frequency range.  
**DUAT** Direct User Access Terminal  
**Duplex** A communication operation that uses the simultaneous operation of the transmit and receive equipment at two locations.  
**DVF** Demonstration and Validation Facility  
**DVI** Digital Visual Interface  
**DVM** Digital Voltmeter  
**DWAN** Direct WAN  
**DX** Distance  
**Dynamic Pressure**  
Dynamic Pressure is the difference between pitot and static pressure.  
**Dynamic RAM** RAM constructed of capacitor elements. Memory cells must be periodically refreshed to keep capacitors from discharging and losing data. . (See “Static RAM”)  
**E** ( 1 ) East . ( 2 ) Elevator  
**EAA** Experimental Aircraft Association  
**EADI** Electronic Attitude Director Indicator  
**EAFR** Enhanced Airborne Flight Recorder  
**EAI** Engine Anti-Ice  
**EAP** Engine Alert Processor  
**EAROM** Electrically Alterable ROM  
**EARS** Engineering Activity Reporting System  
**EARTS** En route Automated Radar Tracking System  
**EAS** Equivalent Airspeed  
**EASA** European Aviation Safety Agency  
**EASIE** Enhanced ATM and Mode S Implementation in Europe  
**EATCHIP** European Air Traffic Control Harmonization and Integration Programme  
**EATMS** European Air Traffic Management Systems  
**EBACE** European Business Aviation Convention and Exhibition  
**EC** Event Criterion  
**ECAC** European Civil Aviation Conference  
**ECAM** Electronic Caution Alert Module  
**ECARS** Enhanced ACARS  
**ECEF** Earth-Centered, Earth-Fixed  
**Echo** The portion of the radiated energy reflected back to the antenna from the target (WXR).  
**ECL** Electronic Checklist  
**ECM** Electronic Control Module  
**ECMP** Electronic Component Management System  
**ECON** Economy (minimum cost speed schedule)

**ECP** EICAS Control Panel  
**ECS** ( 1 ) Engineering Compiler System. An automated data storage system. .( 2 ) Environmental Control System .  
 ( 3 ) Event Criterion Subfield  
**ECSL** Left Environmental Control System Card  
**ECSMC** ECS Miscellaneous Card  
**ECSR** Right Environmental Control System Card  
**ECU** ( 1 ) EICAS Control Unit . ( 2 ) Electronic Control Unit . ( 3 ) External Compensation Unit  
**ED** EICAS Display  
**E/D** End-of-Descent  
**EDA** Electronic Design Automation  
**EDAC** Error Detection and Correction (used interchangeably with EDC)  
**EDC** Error Detection and Correction  
**EDDS** Electronic Document Distribution Service  
**EDFCS** Electronic Digital Flight Control System  
**EDI** Engine Data Interface  
**EDIF** Engine Data Interface Function  
**EDIU** Engine Data Interface Unit  
**EDMS** Electronic Data Management System  
**EDP** ( 1 ) Electronic Data Processing . ( 2 ) Engine Driven Pump . ( 3 ) Engineering Development Pallet  
**EDU** Electronic Display Unit  
**EDS** Electronic Data Services  
**EE** Electronics Equipment (e.g. EE-Bay)  
**EEC** Electronic Engine Control  
**EEPROM** Electrical Erasable Programmable Read Only Memory  
**EEU** ELMS Electronics Unit  
**EFB** Electronic Flight Bag  
**EFC** Expected Further Clearance  
**efd** Electronic Flight Display  
**EFDR** Expanded Flight Data Recorder  
**EFIC** Electronic Flight Instrument Controller  
**EFIP** Electronic Flight Instrument Processor  
**EFIS** Electronic Flight Instrument System  
**EFISCP** EFIS Control Panel  
**EFVS** Enhanced Flight Vision System  
**EGIHO** Expedited Ground Initiated Handoff  
**EELV** Evolved Expendable Launch Vehicle  
**EGNOS** European Geostationary Navigation Overlay System  
**EGP** Exterior Gateway Protocol  
**EGPWS** Enhanced Ground Proximity Warning System  
**EGT** Exhaust Gas Temperature  
**EHSI** Electronic Horizontal Situation Indicator  
**EHV** Electro-Hydraulic Valve  
**EI** Engine Indication  
**EIA** Electronic Industries Association  
**EICAS** Engine Indication and Crew Alert System: System that combines engine parameters and aircraft system status.  
**EICASC** Engine Indication and Crew Alert System Controls  
**EIPI** Extended Initial Protocol Identifier  
**EIRP** Earth Incident Radiated Power  
**EIS** ( 1 ) Electronic Instrument System . ( 2 ) Engine Indication System . ( 3 ) Entry-In-Service  
**EISA** Extended Industry Standard Architecture  
**EIU** EFIS/EICAS Interface Unit  
**EL/FCG** Electronic Logbook and Fault Correction Guide  
**ELB/ISE** Electronic Logbook In-Service Evaluation  
**ELC** Emitter Coupled Logic  
**ELEC** Electrical  
**ELEV** Elevation  
**ELM** Extended Length Message  
**ELMS** Electrical Load Management System  
**ELS** Electronic Library System

**ELT** Emergency Locator Transmitter  
**EM** Element Manager  
**EMC** ( 1 ) Electromagnetic Compatibility. ( 2 ) Entertainment Multiplexer Controller  
**EMER** Emergency  
**EMG** Emergency  
**EMI** Electro-Magnetic Interference  
**EMS** ( 1 ) Emergency Medical Services . ( 2 ) Engine Management System  
**ENG** Engine  
**ENOC** Engineering Network Operations Center  
**ENQ** Enquire  
**EN RTE** En Route  
**E/O** Engine-Out  
**EOD** End Of Day  
**EOM** End Of Message  
**EOT** End Of Text  
**EP** External Power  
**EPC** External Power Contactor  
**EPCS** Engine Propulsion Control System  
**E-PIREPS** Electronic Pilot Reports  
**E-Plane** The E-Plane is the plane of an antenna that contains the electric field. The principal E-Plane also contains the direction of maximum radiation.  
**EPLD** Electrically Programmable Logic Device  
**EPP** Enhanced Parallel Port  
**EPR** Engine Pressure Ratio  
**EPROM** Erasable Programmable ROM  
**EPS** Electrical Power System  
**EPU** Estimated Position Uncertainty  
**EQUIP** Equipment  
**Equivalent Airspeed** Equivalent Airspeed is a direct measure of the incompressible free stream of dynamic pressure. (EAS) It is CAS corrected for compressibility effects.  
**ERPDU** Echo Reply Protocol Data Unit  
**ERA** European Regional Airlines Association  
**ERB** Engineering Review Board  
**ERD** End Routing Domain  
**ERDI** En Route Domain Infrastructure  
**ERE** External Roll Extrusion  
**ERP** ( 1 ) Eye Reference Point . ( 2 ) Enterprise Resource Planning  
**ERPPDU** Echo Reply Protocol Data Unit  
**ERQPDU** Echo Request Protocol Data Unit  
**ERU** Engine Relay Unit  
**ES** ( 1 ) End System . ( 2 ) Extended Squitter  
**ESA** European Space Agency  
**ESAS** ( 1 ) Electronic Situation Awareness System. ( 2 ) Enhanced Situational Awareness System  
**E-Scan** Electronic Scanning  
**ESD** Electrostatic Discharge  
**ESDS** Electrostatic Sensitive Devices. Also known as ESSD.  
**ESE** COTS Ethernet Switching Equipment  
**ESH** End System Hello  
**ESID** Engine and System Indication Display  
**ESIS** Engine and System Indication System  
**ESR** Energy Storage/Control  
**ESS** ( 1 ) Electronic Switching System . ( 2 ) Environmental Stress Screening  
**ESSD** Electro Static Sensitive Devices. See also ESDS.  
**ESSP** Environmental Stress Screen Procedure  
**EST** Estimated  
**ESU** Environmental Sensor Unit  
**ET** Elapsed Time  
**ETA** Estimated Time of Arrival: The estimated time to arrive at some navigational position based on present position and estimated ground speed.

**ETB** ( 1 ) End of Block (ASC II/IA5 character) . ( 2 ) Engineering Test Band  
**ETD** Estimated Time of Departure  
**ETI** Elapsed Time Indicator  
**ETM** Elapsed Time Measurement  
**ETMS** Enhanced Traffic Management System  
**ETOPS** Extended Twin Engine Operations  
**ETP** Equal Time Point  
**ETRC** Expected Taxi Ramp Clearances  
**ETVS** Enhanced Terminal Voice Switch  
**ETX** ( 1 ) End of Transmission . ( 2 ) Entry Task Exit  
**EUAFS** Enhanced Upper Air Forecast System  
**EUPS** External Uninterruptible Power Supply  
**EUR** European  
**EURATN** European ATN  
**EURET** European Transport  
**EuroCAE** European Organization for Civil Aviation Electronics. A regulatory agency for avionics certification in Europe.  
**EUROCONTROL** European Organization for the Safety of Air Navigation Operations  
**EV** Earned Value  
**EVM** Error Vector Magnitude  
**EVS** Enhanced Vision System  
**EXEC** Executive  
**EXT** Extension  
**Extremely Improbable** A probability of occurrence less than or equal to  $1 \times 10^{-9}$  per hour of flight, or per event (e.g. takeoff, landing). (AMJ 52.1309).  
**Extremely Remote** A probability of occurrence greater than  $1 \times 10^{-9}$  but less than or equal to  $1 \times 10^{-7}$  hour of flight, or per event (e.g., takeoff, landing) (AMJ 25.1309).  
**F** Fahrenheit  
**FA** Final Approach  
**FAA** ( 1 ) Federal Aviation Administration (U.S.). ( 2 ) Federal Aviation Authority  
**FAATC** FAA Technical Center (U.S.)  
**FAC** ( 1 ) Flight Augmentation Computer . ( 2 ) Final Approach Course  
**FADEC** Full Authority Digital Electronic Control  
**FAF** Final Approach Fix  
**FAI** First Article Inspection  
**Fail Operation System** System capable of completing the specified phases of an operation following the failure of any single system component after passing a point designated by the applicable safety analysis (e.g., Alert Height).  
**Fail Passive System** System which, in the event of a failure, causes no significant deviation of aircraft.  
**Fail Passive (Collins Autopilot)** A single failure, should not: ( 1 ) Cause significant displacement of the aircraft from its approach path or altitude loss below the nominal glidepath. . ( 2 ) Upon system disconnection, involve any out-of-trim condition not easily controlled by the pilot. . ( 3 ) Cause any action of the flight control system that is not readily apparent to the pilot, either by control movement or advisory display.  
**Fail Safe** ( a ) Fail safe means that the structure has been evaluated to assure that catastrophic failure is not probable after fatigue failure or obvious partial failure of a single, principal structural element. . ( b ) Fail safe means that an Autopilot complies with the requirements of AC25.1329-1A.  
**Fail Soft (Collins Autopilot)** Limited aircraft disturbance for any single faultless than 0.4 in pitch and less than 5 deg/sec of roll rate.  
**Fan Marker** A marker beacon used to provide identification of positions along airways. Standard fan marker produces an elliptical-shaped pattern . A second type produces a dumbbell-shaped pattern.  
**FANS** Future Air Navigation System  
**FAP** Final Approach Point  
**FAR** ( 1 ) Federal Acquisition Regulation. ( 2 ) Federal Aviation Regulation  
**FAS** Final Approach Segment  
**FAST** Final Approach Spacing Tool  
**FAT** Factory Acceptance Test  
**FBL** Fly-By-Light  
**FBO** Fixed Base Operator  
**FBW** Fly-By-Wire  
**FC** Foot Candles  
**FCA** Functional Configuration Audit  
**FCAF** Flight Data Acquisition

**FC-AV** Fibre Channel-Audio Video  
**FCC** ( 1 ) Federal Communications Commission . ( 2 ) Flight Control Computer  
**FCDC** Flight Critical dc  
**FCOM** Flight Crew Operating Manual  
**FCP** ( 1 ) Flight Control Panel . ( 2 ) Flight Control Processor  
**FCS** ( 1 ) Flight Control System . ( 2 ) Frame Check Sequence  
**FD** ( 1 ) Final Data . ( 2 ) Flight Director . ( 3 ) Flight Dynamics . ( 4 ) Forward Display  
**FDAF** Flight Data Acquisition Function  
**FDAU** Flight Data Acquisition Unit  
**FDB** Flight Plan Data Bank  
**FDE** ( 1 ) Flight Detection Exclusion . ( 2 ) Flight Deck Enhancement  
**FDDI** Fiber Distributed Data Interface  
**FDEP** Flight Data Entry Panel  
**FDH** Flight Deck Handset  
**FDI** Fault Detection and Isolation  
**FDIO** Flight Data Input/Output  
**FDM** Frequency Division Multiplex. A system where the messages are transmitted over a common path by employing a different frequency band for each signal.  
**FDMA** Frequency Division Multiple Access  
**FDPS** Flight Data Processing System  
**FDR** Flight Data Recorder  
**FDRS** Flight Data Recorder System  
**FDS** Flight Display System  
**FDU** Flux Detector Unit  
**FEATS** Future European Air Traffic Management System  
**FEC** Forward Error Correction  
**FEP** Front End Processor  
**FF** Fuel Flow  
**FFSC** Free Flight Steering Committee  
**FGC** Flight Guidance Computer  
**FGP** Flight Guidance Panel: A LRU used for controlling the modes of the flight director.  
**FGS** Flight Guidance System  
**FHA** ( 1 ) Functional Hazard Assessment/Analysis . ( 2 ) Fault Hazard Assessment  
**FHSS** Frequency Hopped Spread Spectrum  
**FHW** Fault History Word  
**FIB** Forwarding Information Base  
**FIFO** First In , First Out  
**FIM** Fault Isolation Manual  
**FIR** Flight Information Region  
**FIS** ( 1 ) Flight Information Service . ( 2 ) Flight Information System . ( 3 ) Flight Instrument System  
**FIS-B** Flight Information Services-Broadcast  
**FIX** Position in space, usually on aircraft's flight plan  
**FL** ( 1 ) Flight Level (as in FL 410). This terminology is used to describe aircraft attitude when the altimeter is set at QNE.  
( 2 ) Foot Lambert  
**FL 180** Flight Level 180: The transition altitude (18,000 ft) for the United States. At this altitude, the pilot sets the barometric correction to standard atmospheric pressure (29.92 in-Hg).  
**FLCH** Flight Level Change  
**FLIR** Forward Looking Infra-Red  
**FLM** Flight Line Maintenance  
**FLT** Flight  
**FLTA** Forward Looking Terrain Avoidance  
**FLTCTRL** Flight Control  
**FLTINST** Flight Instrument  
**FLW** Forward Looking Windshear Radar  
**FM** ( 1 ) Frequency Modulation . ( 2 ) Flight Management  
**FMA** Flight Mode Annunciator  
**FMC** ( 1 ) Flight Director Control (FD). ( 2 ) Flight Management Computer (FMCS)  
**FMCF** Flight Management Computer Function  
**FMCS** Flight Management Computer System  
**FMCW** Frequency-Modulated Continuous Wave

**FMEA** Failure Mode and Effects Analysis  
**FMF** Flight Management Function  
**FMP** Flight Mode Panel  
**FMS** Flight Management System  
**FMU** Fuel Metering Unit  
**F/O** ( 1 ) First Officer . ( 2 ) Fuel/Oil Cooler . ( 3 ) Fiber Optic  
**FOB** Fuel on Board  
**FOC** ( 1 ) Fuel/Oil Cooler . ( 2 ) Full Operational Capability  
**FOEB** Flight Operations Evaluation Board  
**FOG** Fiber Optic Gyro  
**FOQA** Flight Operations Quality Assurance  
**FOV** Field Of View  
**FPA** ( 1 ) Flight Path Angle . ( 2 ) Focal Plane Array  
**FPAC** Flight Path Acceleration  
**FPC** Flight Profile Comparator  
**FPGA** Field Programmable Gate Array  
**FPLN** Flight Plan  
**FPM** Feet Per Minute  
**FPTA** Flight Plan Target Altitude  
**FPV** Flight Path Vector  
**FQIS** Fuel Quantity Indicating System  
**FQPU** Fuel Quantity Processor Unit  
**FQR** Formal Qualification Review  
**FR** From  
**FRA** Flap Retract ion Altitude  
**FRAD** Frame Relay Access Device  
**Framing Pulse** A pulse that is used to mark the beginning or end of the coded reply pulses.  
**FREER** Free-Route Experimental Encounter Resolution  
**Free Scan Mode** A DME operating mode that will provide distance data to all DME ground stations within the DME range (LOS).  
**FREQ** Frequency  
**Frequency** The ability of a receiver-transmitter to rapidly and continually shift operating frequency.  
**FRM** Fault Reporting Manual  
**FRMR** Frame Reject  
**FRONTCOURSE** ILS approach made from the end of the runway for which the localizer is calibrated. Uses both localizer and the glideslope.  
**FRP** Federal Radionavigation Plan  
**FRPA** Fixed Reception Pattern Antenna  
**FRQ** Frequency  
**FSAS** Flight Service Automation System  
**FSB** Flight Standardization Board  
**FSE** Field Service Engineer  
**FSEU** Flap Slat Electronics Unit  
**FSF** Flight Safety Foundation  
**FSS** Flight Service Station  
**FSU** File Server Unit  
**FT** ( 1 ) Functional Test . ( 2 ) Feet  
**FTE** Flight Technical Error: The accuracy with which the aircraft is controlled as measured by the indicated aircraft position with respect to the indicated command or desired position. It does not include blunder errors.  
**FTP** File Transfer Protocol  
**FTPP** Fault Tolerant Power Panel  
**FUA** Flexible Use Airspace  
**FW** Failure Warning  
**FWC** Flight Warning Computer  
**FWD** Forward  
**FWS** Flight Warning System  
**FYDS** Flight Director/Yaw Damper System  
**GaAsFET** Gallium Arsenide Field Affect Transistor  
**GA** ( 1 ) General Aviation . ( 2 ) Go Around  
**GAAS** Gallium Arsenide

**GACS** Genetic ATN Communications Service  
**GAIT** Ground-based Augmentation and Integrity  
**GAMA** General Aviation Manufacturers Association  
**GAN** Global Area Network  
**GATM** Global Air Traffic Management  
**GBAS** Ground Based Augmentation System  
**GBST** Ground-Based Software Tool  
**Gbyte** Gigabyte (billion bytes)  
**GCAS** Ground Collision Avoidance System  
**GCB** Generator Circuit Breaker  
**GCC** Ground Cluster Controller (ACARS)  
**GCIS** Global Component Information System  
**GCP** Generic Control Panel (circuit card)  
**GCS** Ground Clutter Suppression  
**GCU** Generator Control Unit  
**GDLP** Ground Data Link Processor  
**GDOP** Geometric Dilution Of Precision. A term referring to error introduced in a GPS calculation due to the positioning of the satellites and the receiver.  
**GDP** Ground Delay Program  
**GE4** Graphics Engine 4  
**GEN** Generator  
**GEO** Geostationary Earth Orbit  
**GES** Ground Earth Station  
**GFE** Government Furnished Equipment  
**GFI** General Format Identifier  
**GFSK** Gaussian Frequency Shift Keying  
**GG ( 1 )** Graphics Generator . ( 2 ) Ground-Ground  
**GGM** Graphics Generator Module  
**GGTFM** Ground-Ground Traffic Flow Management  
**GGR** Ground-Ground Router  
**GGs** Global Positioning System Ground Station  
**GH** Ground Handling  
**GHz** Gigahertz (billion hertz)  
**GI** Group Identifier  
**GIB** GNSS Integrity Broadcast  
**GIC** GNSS Integrity Channel  
**GICB** Ground-Initiated Comm-B  
**GIGO** Garbage-In Garbage-Out  
**GIHO** Ground Initiated Handoff  
**GL ( 1 )** Ground Location (ACARS/AFEPS) . ( 2 ) Group Length  
**Glidepath** The approach path used by an aircraft during an instrument landing or the portion of the glideslope that intersects the localizer. The glide path does not provide guidance completely to a touch down point on the runway.  
**Glideslope** The vertical guidance portion of an ILS system.  
**GLNS** GPS Landing and Navigation System  
**GLNU** GPS Landing and Navigation Unit  
**GLONASS** Global Navigation Satellite System  
**GLS ( 1 )** GPS/GNSS Landing System . ( 2 ) Gun Laying System  
**GLU** GPS/GNSS Landing Unit  
**GM** Guidance Material  
**GMC** Ground Movement Control  
**GMT** Greenwich Mean Time. GMT is a universal time scale based upon the mean angle of rotation of the earth about its axis in relation to the sun. It is referenced to the prime meridian that passes through Greenwich, England.  
**GMU** Global Network Architecture  
**GND** Ground  
**GNE** Gross Navigational Error  
**GNLS** GNSS Navigator and Landing System  
**GNLU** GNSS Navigator and Landing Unit  
**GNR** Global Navigation Receiver  
**GNSS** Global Navigation Satellite System  
**GNSSP** Global Navigation Satellite System Panel

**GNU GNSS Navigator Unit**

**Goniometer** A device that combines the two signals from two loop antennas. The goniometer (or resolver) contains two fixed coils and one rotating coil. The rotating coil is connected to the ADF bearing indicator needle to indicate the relative bearing from the aircraft to the NDB station. The mechanical position of the rotor represents the bearing of the station, and the position is electrically transmitted to the RMI.

**GOS** Grade of Service

**GOSIP** Government Open Systems Interconnection Profile

**GPA** Glide Path Angle: The angle between the ground and the glidepath. Similar concept to glideslope angle.

**GPADIRS** Global Positioning, Air Data, Inertial Reference System

**Gbps** Gigabits per second

**GPIB** General Purpose Instrument Bus

**GPM** General Purpose Module

**GPP** General Purpose Processor

**GPS** ( 1 ) Global Positioning System (See NAVSTAR) . ( 2 ) Global Positioning Satellite

**GPS L1** Global Positioning System L1 Frequency

**GPSSU** Global Positioning System Sensor Unit

**GPU** Ground Power Unit

**GPWC** Ground Proximity Warning Computer

**GPWS** Ground Proximity Warning System

**GR** Ground Router

**GRIB** Gridded Binary (National Weather Service Model Output)

**Gradient** The rate at which a variable quantity increases or decreases.

**Gray Code** Special binary code used to transmit altitude data between framing pulses of a transponder reply. A cyclic code having only one digit change at a time. Used in Mode C to transmit a/c barometric altitude. Also known as Gilham code.

**Ground Wave** A radio wave that travels along the earth's surface.

**GRP** Geographic Reference Point

**GS** ( 1 ) Glideslope: Radio signal that provides vertical guidance in an instrument landing. . ( 2 ) Ground Speed

**G/S** Glideslope: Radio signal that provides vertical guidance in an instrument landing.

**GSC** Ground Station Controller (ACARS)

**GSE** Ground Support Equipment

**GSIF** Ground Station Information Frame

**GSM** Global Systems Mobile

**GSMS** Ground Station Management System

**GSP** Glare Shield Panel

**GSV** Gray Scale Voltage(s)

**GT** Greater Than

**GTA** General Terms Agreement

**GTC** Data Link Ground Terminal Computer

**GTR** General Technical Requirements

**GUI** Graphic/User Interface

**GVE** Graphics Vector Engine

**GW** ( 1 ) Gateway . ( 2 ) Gross Weight

**GWS** Graphical Weather Services

**Gyroscope** A rotating device that will maintain its original plane of rotation, no matter which direction the gyroscope mount is turned.

**HAD** Hardware Architecture Document

**“Halo”** Means there is a thin black line (halo) around the symbol or character. Haloing is used when appropriate to allow characters and/or symbols to be clearly seen when they are displayed against a solid background color (Such as the Sky/Ground).

**HALT** Highly Accelerated Life Testing

**HAMS** Hot Air Management System

**HAP** HGS Annunciator Panel

**HARS** High Altitude Route System

**HAT** Height Above Touchdown

**HC** HGS Computer

**HCP** ( 1 ) Head-Up Control Panel. ( 2 ) HGS Control Panel

**HCI** Human Computer Interface

**HCS** Host Computer System

**HCU** HUD Combiner Unit

**HCW** Heavily Cold Worked Pipe and Tube . (Sean-Free™)

**HDBK** Handbook

**HDD** Head Down Display

**HDG** Heading: The angular relation of the longitudinal axis of the aircraft with respect to a reference. Magnetic heading is referenced to magnetic north. True heading is reference to true north.

**HDGSEL** Heading Select

**HDISK** Hard Disk

**HDL** Hybrid Data Link

**HDLC** High-Level Data Link Control

**HDLC-B** High-Level Data Link Control-Balanced

**HDLMS** Hybrid Data Link Management System

**HDOP** Horizontal Dilution of Precision

**HDOT** Inertial Vertical Speed

**HDP** Hardware Development Plan

**HE** Altitude Error

**Heading** The direction of an aircraft path with respect to magnetic or true north.

**HERF** High Energy Radio Frequency Interference

**HF** ( 1 ) High Frequency. The portion of the radio spectrum from 3 to 30 MHz. HF communication systems operate in the 2 to 30 MHz portion of the spectrum. . ( 2 ) Human Factors

**HFDL** High-Frequency Data Link

**HFDM** HF Data Modem

**HFDR** High Frequency Data Radio

**HFNPDU** High Frequency Network Protocol Data Unit

**HFS** High Frequency System

**HFSG** Human Factor Study Group

**HFSNL** HF Sub Network Layer

**HGA** High Gain Antenna

**HGC** Head-Up Guidance Computer

**HGS** ( 1 ) Head-Up Guidance System . ( 2 ) HUD Guidance System

**HHLD** Heading Hold

**HI** High

**HIC** ( 1 ) Head Impact Criteria. ( 2 ) Head Injury Criteria

**HIL** Horizontal Integrity Limit

**HIRF** ( 1 ) High Intensity Radiated Field. ( 2 ) High Intensity Radio Frequency

**HLCS** High Lift Control System

**HLE** Higher Layer Entity

**HLL** High Level Language

**HM** Health Management

**HMF** Health Management Function

**HMI** Human Machine Interface

**HMOS** High Density Metal Oxide Semiconductor

**HMU** Height Monitoring Unit

**HO** Handoff

**HOLD** Holding Pattern

**HOW** Hand Over Word

**HP** ( 1 ) High Pressure . ( 2 ) Holding Pattern

**HPA** ( 1 ) High Power Amplifier . ( 2 ) HectoPascal: A unit of pressure in the meter-kilogram-second system. (Hecto=100). (1 Pascal=1 Newton per square meter).

**hPa** hecto Pascal

**HPC** High Pressure Compressor

**H-Plane** The H-Plane is the plane in which the magnetic field of the antenna lies. The H-Plane is perpendicular to the E-Plane.

**HPR** High-Power Relay

**HPRES** Pressure Altitude

**HPSOV** High-Pressure Shutoff Valve

**HPT** High-Pressure Turbine

**HPU** HUD Projector Unit

**HRD** Home Routing Domain

**HSA** Horizontal Stabilizer Actuator

**HSACE** Horizontal Stabilizer Actuator Control Electronics

**HS-DSAD** High Speed Frame Relay Service Access Device

**HSI** Horizontal Situation Indicator. An indicator that displays bearing, glideslope, distance, radio source, course and heading information.

**HSIT** Hardware and Software Integration Test

**HSL** Heading Select

**HSR** High Stability Reference

**HSRP** Hot Standby Routing Protocol

**HST** High Speed Transceivers

**HSTA** Horizontal Stabilizer Trim Actuator

**HTC** Highest Two-way Channel

**HUD** Head-Up Display

**HVPS** High-Voltage Power Supply

**HW** Hardware

**HWCI** Hardware Configuration Item

**HWND** Headwind

**HW/SW** Hardware/Software

**HX** Heat Exchanger

**HYD** Hydraulic

**HYDIM** Hydraulic Interface Module

**Hz** Hertz (cycles per second)

**I2S** Integrated Information System

**IACSP** International Aeronautical Communications Service Provider

**I/F** Interface

**IA5** International Alphabet Number 5

**IAGS** Integrated ARINC Ground Station

**IANA** Internet Assigned Number Authority

**IAOA** Indicated Angle-of-Attack

**IAOPA** International Council of Aircraft Owners and Pilots Associations

**IAPA** Instrument Approach Procedures Automation

**IAPS** Integrated Avionics Processing System

**IARP** Inverse Address Resolution Protocol

**IAS** Indicated Airspeed is the speed indicated by a differential pressure airspeed indicator that measures the actual pressure differential in the pitot-static head. It is the actual instrument indication for a given flight condition.

**IASP** IAS Profile: An autopilot/flight director mode that commands the aircraft to fly pre-programmed airspeed values.

**IATA** International Air Transport Association

**IAW** In Accordance With

**IBAC** International Business Aviation Council

**IC** ( 1 ) Integrated Circuit . ( 2 ) Intercabinet

**ICAO** International Civil Aviation Organization (Montreal)

**ICC** IAPS Card Cage

**ICCA** International Civil Certification Authorities

**ICCAIA** International Coordinating Council of Aerospace Industries

**ICD** ( 1 ) Installation Control Drawing. ( 2 ) Interface Control Drawing. ( 3 ) Interactive Design Center

**ICM** Interline Communications Manual

**ICMP** Internet Control Message Protocol

**ICNIA** Integrated Communication s, Navigation and Identification Avionics

**ICP** Initial Conflict Probe

**ICSS** Integrated Communication Switching System

**ICU** Instrument Comparator Unit

**ID** Identifier

**IDC** Indicator Display/Control

**IDE** Integrated Development Environment

**Ident** The action of the transponder transmitting an extra pulse along with its identification code (at the request of a controller).

**IDI** Initial Domain Identifier

**IDG** Integrated Drive Generator

**IDM** Integrated Decision Making

**IDP** Initial Domain Part

**IDRP** Inter-Domain Routing Protocol

**IDS** ( 1 ) Ice Detection System . ( 2 ) Integrated Display System . ( 3 ) Information Display System

**IDU** Interactive Display Unit

**IEC** IAPS Environmental Control Module  
**IED** Insertion Extraction Device  
**IEEE** Institute of Electrical and Electronics Engineers  
**IEPR** Integrated Engine Pressure Ratio  
**IETM** Interactive Electronic Training Manual  
**IF(if)** Intermediate Frequency. A frequency to which a signal is shifted as an in-between step in the reception or transmission of a signal.  
**IFALPA** International Federation of Airline Pilots Association  
**IFATCA** International Federation of Air Traffic Controllers' Associations  
**IFE** In-Flight Entertainment  
**IFPS** Integrated Initial Flight Plan Processing System  
**IFR** Instrument Flight Rules  
**IFRB** International Frequency Registration Board  
**IGA** Intermediate Gain Antenna  
**IGES** Standardized Graphics Exchange File  
**IGIA** Interagency Group on International Aviation  
**IGS** Integrated Ground Software  
**IGV** Inlet Guide Vane  
**ILM** Independent Landing Monitor  
**ILS** Instrument Landing System. The system provides lateral, a long-course and vertical guidance to aircraft attempting a landing.  
**IM** Inner Marker Beacon: When present, MB used in conjunction with ILS, intercepts glideslope approximately 100 feet above touchdown.  
**IMA** Integrated Modular Avionics  
**IMAS** Integrated Mission Avionics System  
**IMC** Instrument Meteorological Conditions  
**IMG** Implementation Management Group  
**IMI** Imbedded Message Identifier  
**IMOK** I'm Okay  
**IMPATT Diode** Impact Avalanche and Transmit Time. This type of diode, when mounted in an appropriate cavity, produces microwave oscillations and amplification.  
**IMS** Integrated Master Schedule  
**IMU** ( 1 ) Inertial Measurement Unit . ( 2 ) IF Multiplexer Unit In Inch  
**INBD** ( 1 ) Inboard . ( 2 ) Inbound  
**IND** Indicator  
**Indicated Altitude** The altitude above mean sea level (uncorrected for temperature).  
**INFO** Information Frame  
**in.hg.** Inches of Mercury  
**INIT** Initialization  
**INJ** Injection  
**INMARSAT** International Maritime Satellite Organization  
**INOP** Inoperative; not working.  
**INPH** Interphone  
**INS** Inertial Navigation System. A self-contained, dead-reckoning system that senses the acceleration along the three axes of the aircraft and calculates the distance traveled from a reference point. Accuracy of the system decreases with respect to time.  
**INST** Instrument  
**INTC** Intercept  
**Interknit** Internet Network Information Center  
**INTERS** Intersections  
**Intruder** An altitude reporting aircraft that is being considered as a potential threat and processed by the threat detection logic (TCAS).  
**Inverse Video** A video display technique that surrounds characters or digits with a color rather than creating those characters or digits from a color (i.e., black characters are created by a red background rather than writing red characters).  
**I/O** Input/Output. Refers to bi-directional data ports.  
**IOC** ( 1 ) Initial Operational Capability. ( 2 ) Input/Output Concentrator. ( 3 ) Input/Output Controller  
**ION** Institute of Navigation  
**IOR** Indian Ocean Region  
**IOS** Internet Operating System  
**IOT&E** Initial Operational Test and Evaluation

**IP** ( 1 ) Instructor Pilot . ( 2 ) Intermediate Pressure . ( 3 ) Internet Protocol . ( 4 ) Intellectual Property  
**IPACG** Informational Pacific Air Traffic Control Coordinating Group  
**IPB** Illustrated Parts Breakdown  
**IPC** ( 1 ) Illustrated Parts Catalog. ( 2 ) Integrated Processing Cabinet. ( 3 ) Intermediate Pressure Compressor  
**IPD** ( 1 ) Industrial Products Division. ( 2 ) Integrated Product Delivery  
**IPI** Initial Protocol Identifier  
**IPL** Illustrated Parts List  
**IPM** Integrated Performance Management  
**IPR** Internet Protocol Router  
**IPS** In-Plane-Switching  
**IPT** ( 1 ) Intermediate Pressure Turbine . ( 2 ) Integrated Product Team  
**IR** Infrared  
**IRD** Integrated Receiver/Decoder  
**IRE** Internal Roll Extrusion  
**IRP** Integrated Refuel Panel  
**IRS** ( 1 ) Inertial Reference System. ( 2 ) Interface Requirements Specification  
**IRU** Inertial Reference Unit  
**ISA** ( 1 ) Industry Standard Architecture. ( 2 ) International Standard Atmosphere  
**ISC** Integrated Systems Controller  
**ISDN** Integrated Services Digital Network  
**ISDOS** Information System Design and Optimization System  
**ISDS** In-Service Data System  
**ISH** Intermediate System Hello  
**ISLN** Isolation  
**ISO** ( 1 ) International Organization for Standardization. ( 2 ) International Standards Organization . ( 3 ) Isolation  
**Iso-Contour** Refer to contour  
**ISOPA** ISO Protocol Architecture  
**ISQC** Intersound Quality Control facility. Facility that checks, labels and distributes all video cassettes.  
**ISP** ( 1 ) Integrated Switching Panel. ( 2 ) Internet Service Provider  
**ISR** Interrupt Service Routine  
**ISS** ( 1 ) Impending Stall Speed . ( 2 ) Integrated Surveillance System  
**ISSN** Intermediate System Subnetwork  
**ISSPU** Integrated Surveillance System Processor Unit  
**ISU** Initial Signal Unit  
**ITA** Institute of Air Transport  
**ITM** Information Technology Management is the ground based portion of an ADMS (See also EDMS ).  
**ITO** Indium-Tin Oxide  
**ITS** Integrated Test System  
**ITSE** Integrated Test and Support Environment  
**ITT** ( 1 ) Interstage Turbine Temperature. ( 2 ) Inter-Turbine Temperature  
**ITU** International Telecommunications Union  
**IUPS** Internal Uninterruptible Power Supply  
**IV** Isolation Valve  
**IVI** Interchangeable Virtual Instrumentation  
**IVSI** Instantaneous Vertical Speed Indicator  
**ITWS** Integrated Terminal Weather System  
**JAA** Joint Aviation Authority  
**JAR** Joint Airworthiness Requirement  
**JAR-AWO** Joint Airworthiness Requirements–All Weather Operations  
**JAO** Jet Assisted Takeoff  
**JCDP** Joint Conceptual Definition Phase  
**JDCP** Joint Development Concept Phase  
**JDP** Joint Definition Phase  
**JFET** Junction Field Effect Transistor  
**JPEG** Joint Photographic Experts Group  
**JPS** Journal Processing System  
**J/S** Jammer to Signal Ratio  
**JSAT** Joint System Acceptance Test  
**JTAG** Joint Test Action Group  
**JTIDS** Joint Tactical Information Distribution System

**KB** Kilo-Bytes (thousand bytes)  
**KBITS** Kilobits  
**Kbps** Kilobits per second  
**kb/s** Kilobits Per Second  
**KBU** Keyboard Unit  
**Key** A hand-operated switching device or the act of operating such a device.  
**KG** Kilogram  
**kHz** Kilohertz (1000 cycles per second)  
**km** Kilometer  
**KPI** Key Performance Indicators  
**KPS** Kilobytes Per Second  
**kts** Knots  
**kVA** Kilovolt-ampere  
**kW** Kilowatt  
**L** Left  
**L1** L-Band carrier (1575.42 MHz)  
**L2** L-Band carrier (1227.6 MHz)  
**L5** Civil Satellite Frequency  
**LAAS** Local Area Augmentation System  
**Lab** Laboratory  
**LADGPS** Local Area Differential GPS  
**LAN** Local Area Network  
**LAPB** Link Access Protocol-Balanced  
**LAT** Latitude  
**L-Band** A radio frequency band from 390 to 1,550 MHz  
**LBS** Pounds  
**LCA** Layered Component Architecture  
**LCC** Leadless Chip Carrier  
**LCD** Liquid Crystal Display  
**LCF** Link Control Field  
**LCI** Logical Channel Identifier  
**LCM** Logic Control Module  
**LCN** Local Communications Network  
**LCoS** Liquid Crystal on Silicon  
**LCP** Lighting Control Panel  
**LCR** Link Connection Refusal  
**LCSTB** Low Cost Simulation Test bed  
**LCVSM** Life Cycle Value Stream Management  
**LD** Lower Data  
**LDA** Localizer Directional Aid  
**LDCC** Leaded Chip Carrier  
**LDGPS** Local Area Differential Global Positioning Satellite  
**LDOC** Long Distance Operational Control  
**LDS** Lightning Detection System  
**LDU** Lamp Driver Unit  
**LE** Link Establish  
**LED** Light Emitting Diode  
**Leg** The section of the flight between two waypoints.  
**LEO** Low Earth Orbiting  
**LF** Low Frequency. The frequency range from 30 to 300 kHz.  
**LFDS** Large Format Display System  
**LFR** Low Frequency Radio Range  
**LGA** Low Gain Antenna  
**LHP** Lightning HIRF Protection  
**LIB** Left Inboard  
**LIM** Limit  
**LIMNATRAN** Limited North Atlantic Regional Air Navigation  
**LINCS** Long-Haul Interfacility Communications System  
**LISN** Line Impedance Stabilization Network  
**LLC** Logical Link Control

**LLMS** Liquid Level Measurement System  
**LLP** Left Lower Plug. Identifies the plug on the rear connector of an avionics unit.  
**L/M** List of Materials  
**LME** Link Management Entity  
**LMI** Logical Management Interface  
**LMM** Locator Middle Marker. An NDB that is co-located at the same site as the 75 MHz middle marker beacon.  
**LMP** Left Middle Plug. Identifies the plug on the rear connector of an avionics unit.  
**LMT** Local Mean Time  
**LNA** Low Noise Amplifier  
**LNAV** Lateral Navigation  
**LO** Low  
**LOB** Left Outboard  
**LOC** Localizer. The lateral guidance portion of an ILS system.  
**Lock-On** The condition that exists when the DME receives reply pulses to at least 50 percent of the interrogations. Valid distance information is then available.  
**LOFT** Line Oriented Flight Training  
**LOM** Locator Outer Marker. An NDB that is co-located at the same site as the 75 MHz outer marker beacon.  
**LON** Longitude  
**LOP** Line Of Position  
**LORAN** Long Range Navigation. A system using a ground facility composed of a master station and a slave station. The airborne receiver computes the position of the aircraft by using two or more received master-slave pairs of signals. LORAN-A operates at 1850, 1900, and 1950 kHz. LORAN-C operates at 100 kHz. LORA N-A was replaced by LORAN-C in 1980.  
**LORAN C** Long Range Navigation System  
**LOS ( 1 )** Line Of Sight. ( 2 ) Line-Oriented Simulation  
**LP** Linear Polarization  
**LPC** Low-Pressure Compressor  
**LPDU** Link Protocol Data Unit  
**LPT** Low-Pressure Turbine  
**LPV** Localizer Precision Vertical  
**LRA or LRR** ( 1 ) Low-Range Radio Altimeter. ( 2 ) Line Replaceable Assembly  
**LRC** Long Range Cruise  
**LRM** Line Replaceable Module  
**LRN** Long Range Navigation  
**LRR** Long Range Radar  
**LRU** Line Replaceable Unit  
**LSB ( 1 )** Lower Sideband. The lower side band is the difference in frequency between the AM carrier signal and the modulation signal . ( 2 ) Least Significant Bit  
**LSC** Low Speed Cues: Markings on the airspeed scale associated with the stall speed region.  
**LSD** Least Significant Digit  
**LS-DSAD** Low-Speed Frame Relay Service Access Device  
**LS-FRAD** Low-Speed Frame Relay Access Device  
**LSI** Large Scale Integration  
**LSK** Line Select Key  
**LSN** Local Subnetwork  
**LSP** Link State PDU  
**LTC** Lowest Two-way Channel  
**LTIR** Long-Term Image Retention  
**LTP** Left Top Plug. Identifies the plug on the rear connector of an avionics unit.  
**LTVS** Long-Term Verification Software  
**Lubber Line** A fixed line placed on an indicator to indicate the front-to-rear axis of the aircraft.  
**LV** Lower Sideband Voice  
**LVDS** Low-Voltage Differential Signaling  
**LVDT ( 1 )** Linear Variable Differential Transformer . ( 2 ) Linear Voltage Differential Transducer (used with aircraft control surface servos).  
**LVLCHG** Level Change  
**LVPS** Low Voltage Power Supply  
**LVTO** Low Visibility Take-Off  
**LWIR** Long Wavelength Infra-Red  
**LX** Lightning

**M** Mach Number

**m** Meter

**MAA** Maximum Authorized IFR Altitude

**MAC** Medium Access Controller

**Mach Number** Mach number is the ratio of the true airspeed to the speed of sound at a particular flight condition. It is the chief criterion of airflow pattern and is usually represented by the free-stream steady-state value.

**Mag** Magnetic

**Magnetic** The bearing with respect to magnetic north.

**MAGVAR** Magnetic Variation: The difference between True North and Magnetic North.

**Bearing Magnetic North** The direction north as determined by the earth's magnetic field. The reference direction for measurement of magnetic directions.

**MAINT** Maintenance

**MALDT** Mean Administrative and Logistics Delay Time

**MAN** Manual

**MAP** ( 1 ) Missed Approach Point. ( 2 ) Mode Annunciator Panel . ( 3 ) Management Authorization Process

**Marker Beacon** A transmitter operating at 75 MHz that provides identification of a particular position along an airway or on the approach to an instrument runway. The marker beacon is continuously tone-modulated by a 400-Hz, a 1,300-Hz or a 3,000-Hz tone. Marker beacons along an instrument runway provide a long-course (range) guidance and designate when an aircraft should be at a certain altitude if the aircraft is following the glide path.

**M/ASI** Mach/Airspeed Indicator

**MASPS** Minimum Aviation System Performance Standards

**MAT** Maintenance Access Terminal

**MAU** Modular Avionics Unit

**MAWP** Missed Approached Waypoint

**MAX** Maximum

**MAX CLB** Maximum engine thrust for two-engine climb

**MAX CRZ** Maximum engine thrust for two-engine cruise

**MAZ** MLS Azimuth: A ground based radio that provides lateral guidance during an MLS landing.

**MB** Marker Beacon

**MBD** Model-Based Development

**MBE** Multiple Bit Error

**Mbps** Mega bytes per Second

**MC** ( 1 ) Master Change . ( 2 ) Master Caution

**MCA** Minimum Crossing Altitude

**MCB** Microwave Circuit Board

**MCBF** Mean Cycles Between Failures

**MCC** Maintenance Control Computer

**MCDC** Multiple Condition Decision Coverage

**MCDP** Maintenance Control Display Panel

**MCDU** Multifunctional Control Display Unit

**MCE** Modular Cabinet Equipment

**MCL** Master Caution Light

**MCN** Manufacturing Control Number

**MCP** ( 1 ) Maintenance Control Panel. ( 2 ) Mode Control Panel

**MCT** Max Continuous Thrust

**MCU** ( 1 ) Modular Concept Unit (approximately . 1/8-ATR, Airline Transport Rack) . ( 2 ) Motor Control Unit (used in auto throttle) . ( 3 ) Multifunction Concept Unit

**MDA** Minimum Descent Altitude

**MDC** Maintenance Diagnostic Computer: A computer that monitors for failures of other systems.

**MDCRS** Meteorological Data Collection and Reporting Service

**MDH** Minimum Descent Height. A specified height in a non-precision approach or circling approach below which descent must not be made without the required visual reference. Minimum Descent Height (MDH) is referenced to aerodrome elevation or to the threshold of that is more than 7 feet (2 m) below the aerodrome elevation. A MDH for a circling approach is reference to the aerodrome elevation.

**MDL** Multipurpose Data Link

**MDS** ( 1 ) Minimum Discernible Signal. The MDS is the lowest RF signal level that can be detected as a valid signal. . ( 2 ) Maintenance Diagnostic Systems

**MDT** Maintenance Display Terminal

**MEA** Minimum En route Altitude

**MEC** Main Equipment Center

**MEL** Minimum Equipment List. The list of equipment that the FAA requires be aboard and working on an aircraft before flying.

**MEMS** MicroElectroMechanical Systems

**MEO** Medium Earth Orbit

**MES** Main Engine Start

**MET** Meteorology

**MF** Medium Frequency. The portion of the radio spectrum from 300 kHz to 3 MHz.

**MFCP** Multifunction Control Display Panel

**MFD** Multifunction Display

**MFDS** Multifunction Display System

**MFDU** Multifunction Display Unit

**MFF** Mixed Fleet Flying

**MFIT** Mean Fault Isolation Time

**MFM** Maintenance Fault Memory

**MFS** Media File Server

**MGP** MLS Glidepath: A ground based radio that provides vertical guidance during an MLS landing.

**MGSCU** Main Gear Steering Control Unit

**MHD** Magnetic Hard Drive

**MHz** Megahertz (1,000,000 cycles per second)

**MIB** Management Information Base

**MIB II** Management Information Base II

**MIC** Microphone. Also refers to the output signal of the microphone.

**MicroEARTS** Micro En route Automated Radar Tracking System

**MIDO** Manufacturing Inspection District Office

**MIDU** Multipurpose Interactive Display Unit

**MIL** Military

**MIL-HDBK-217** General Prediction of Electronic Equipment (MTBF)

**MILSPEC** Military Specifications

**MIL-STD-882** System Safety Requirements

**Min** ( 1 ) Minimum . ( 2 ) Minutes

**MIPS** Million Instructions Per Second

**MIR** Most Important Requirement

**MKP** Multi-function KeyPad

**MKR** ( 1 ) Marker . ( 2 ) Marker Beacon

**MLA** Maneuver Limited Altitude

**MLS** Microwave Landing System: An ILS like system that potentially provides curved lateral path selectable angle approach.

**MLW** Maximum Landing Weight

**MM** ( 1 ) Mass Memory . ( 2 ) Middle Marker: MB used in conjunction with ILS, intercepts glideslope approximately 200 feet above touchdown.

**MME** ( 1 ) Modular Mounting Enclosure . ( 2 ) Moving Map Equipment

**MMEL** Master Minimum Equipment List

**MMI** Man-Machine Interface

**MMIC** Monolithic Microwave Integrated Circuit

**Mmo** The maximum Mach number at which an aircraft has been certified to operate.

**MMO** Mach Maximum Overspeed

**MMR** Multi-Mode Landing System Receiver

**MMS** Maintenance Management System

**MMW** Millimeter Wave

**MN** Magnetic North

**MNCID** Network Management Category Interaction Diagram

**MNPS** Minimum Navigation Performance Specification

**MO** Magneto-Optical

**MOA** ( 1 ) Memorandum of Agreement. ( 2 ) Military Operation Area

**MOCA** Minimum Obstruction Clearance Altitude

**MOD** ( 1 ) Magneto-Optical Drive . ( 2 ) Modification. ( 3 ) Modulator

**Mode A** The pulse format for an identification code interrogation of an ATC RBS transponder.

**Mode B** An optional mode for transponder interrogation.

**Mode C** The pulse format for an altitude information interrogation of an ATC RBS transponder.

**Mode D** An unassigned, optional transponder mode.

**Mode S** ( 1 ) Mode Select (a transponder format to allow discrete interrogation and data link capability). ( 2 ) Selective interrogation mode of SSR

**MODEM** Modulator/De modulator

**Mon** Monitor

**MOPR** Minimum Operational Performance Requirements

**MOPS** Minimum Operational Performance Specifications

**MORA** Minimum Off-Route Altitude

**MOS** Metal Oxide Semiconductor

**MOSFET** Metal Oxide Semiconductor Field Effect Transmitter

**MOU** Memorandum Of Understanding

**MP** ( 1 ) Main Processor . ( 2 ) Middle Plug. Identifies the plug position on the rear connector of an avionics unit.

**MPCU** Multiport Protocol Converter Unit

**MPDS** Mobile Packet Data Service

**MPEL** Maximum Permissible Exposure Level

**MPU** Multifunction Process Unit

**MRA** Minimum Reception Altitude

**MRB** Maintenance Review Board

**MRDU** Multichannel Receiver/Decoder Unit

**MRO** Maintenance, Repair & Overhaul

**MROSE** Multiple-tasking Real-time Operating System Executive

**MRR** Manufacturing Revision Request

**MRT** Mean Response Time

**MS** Millisecond

**m/s** Meter per Second

**MSAS** Ministry of Transportation Satellite Augmentation System (Japan)

**MSB** Most Significant Bit

**MSC** ( 1 ) Message Sequence Chart . ( 2 ) Member Services Center

**MSCP** Mobile Satellite Service Provider

**MSD** ( 1 ) Mass Storage Device . ( 2 ) Most Significant Digit

**MSG** Message

**MSI** Medium Scale Integration

**MSK** Minimum Shift Keying

**MSL** Mean Sea Level

**MSP** Mode Select Panel

**M-SNDCF** Mobile-Subnetwork Dependent Convergence

**MSP** Mode S Specific Protocol

**MSSR** Monopulse Secondary Surveillance Radar

**MSSS** Mode S Specific Services

**MSU** ( 1 ) Mode Select Unit . ( 2 ) Magnetic Sensor Unit

**MT** Minimum Time

**MTBF** Mean Time Between Failures. A performance figure calculated by dividing the total unit flying hours (airborne) accrued in a period of time by the number of unit failures that occurred during the same time. Where total unit hours are available, this may be used in lieu of total unit flying hours.

**MTBO** Mean Time Between Outages

**MTBR** ( 1 ) Mean Time Between Removal . ( 2 ) Mean Time Between Repairs. A performance figure calculated by dividing the total unit flying hours accrued in a period by the number of unit removals (scheduled plus unscheduled) that occurred during the same period.

**MTBUR** ( 1 ) Mean Time Between Unscheduled Removal . ( 2 ) Mean Time Between Unit Replacements. A performance figure calculated by dividing the total unit flying hours (airborne) accrued in a period by the number of unscheduled unit removals that occurred during the same period.

**MTC** Maintenance Terminal Cabinet

**MTD** Maintenance Terminal Display

**MTF** Maintenance Terminal Function

**MTI** Moving Target Indicator. This type of radar display will show only moving targets.

**MTM** Module Test and Maintenance

**MTMIU** Module Test and Maintenance Bus Interface Unit

**MTSAT** Multi-function Transport Satellite System (Japan)

**MTTDA** Mean Time To Dispatch Alert

**MTTF** Mean Time To Failure. A performance figure calculated by dividing the summation of times to failure for a sample of failed items by the number of failed items in the sample. The same item failing N times constitutes N failed items in the sample. This is different from mean time between failures since no allowance is given to items that have not failed.

**MTTM** Mean Time To Maintenance. The arithmetic mean of the time intervals between maintenance act ions.

**MTTMA** Mean Time to Maintenance Alert

**MTTR** Mean Time To Repair. A performance figure calculated by dividing the sum of the active repair elapsed times accrued in a period on a number of designated items by the number of these items repaired in the same period.

**MTTRS** Mean Time To Restore Service

**MTTUR** Mean Time To Unscheduled Removal. A performance figure calculated by dividing the summation of times to unscheduled removal for a sample of removed items by the number of removed items in the sample. This is different from MTBUR since no allowance is given to items that have not been removed.

**MU** ACARS Management Unit

**MULT** Multiplier

**MUS** Minimum Use Specification. A generic description by parameter and characteristics of the test equipment and resources required for testing a unit or system.

**MUX** Multiplexer

**MVA** Multi-domained, Vertically Aligned

**MWARA** Major World Air Route Area

**MW/MC** Master Warning/Master Caution

**MWIR** Mid Wavelength Infra-Red

**MWL** Master Warning Light

**N** North

**N 1** Fan speed

**N 2** Intermediate compressor speed

**N 3** High compressor speed

**N/A** Not Applicable

**NACA** National Advisory Committee for Aeronautics

**NADIN** National Airspace Data Interchange Network

**NAK** Negative Acknowledgement

**NAS** ( 1 ) National Aircraft Standard. ( 2 ) National Airspace System

**NASA** National Aeronautics and Space Administration

**NASPALS** NAS Precision Approach and Landing System

**NAT** North Atlantic Tracks

**NATA** National Air Transport Association, Inc.

**NATCA** National Air Traffic Controllers Association

**NATS** ( 1 ) North Atlantic Track System. ( 2 ) North American Telephone System

**NAT/NAM/PAC** North Atlantic/North American/Pacific

**NAV** Navigation

**NAVAID** Navigational Aid. A radio station (VOR) or a waypoint that assists in navigation.

**Navigation Datacard** A medium holding the customized navigation database.

**NAVSTAR** The NAVSTAR global positioning system (GPS) is a system using 24 satellites, all reporting precise time signals, along with location keys. Eight satellites are in each of three 63-degree inclined plane circular orbits at 11,000 nmi in altitude. The system is used for navigation and determining exact position.

**Nautical Mile (nmi)** Equivalent to 6,076.1 feet, or approximately 1.15 statute miles.

**NBAA** National Business Aviation Association

**NC** Numerical Control

**NIC** New Installation Concept

**NCD** No Computed Data

**NCI** Not Currently Implemented

**NCS** Network Coordination Station

**ND** Navigation Display. An EFIS presentation substituting for the horizontal situation indicator (HSI).

**NDB** ( 1 ) Navigation Data Base (as stored in FMC memory) . ( 2 ) Non-Directional Radio Beacon. A ground station designed specifically for ADF use that operates in the 190- to 550-kHz range. Transmits a continuous carrier with either 400- or 1020-Hz modulation (keyed) to provide identification.

**NDI** Non-Developmental Item

**NE** Network Element

**NEAN** North European ADS-B Network

**NEG** Negative

**NEMA** National Electrical Manufacturers Association

**NESDIS** National Environmental Satellite, Data and Information Service

**NET** Network Entity Title  
**NEXCOM** Next Generation Communications  
**NEXRAD** Next Generation Radar  
**NFF** No Faults Found  
**NGATM** New Generation Air Traffic Manager  
**NH** High Pressure Gas Generator RPM  
**NHE** Notes and Helps Editor  
**NICE** NAT Implementation Management Group Cost Effectiveness  
**NIMS** NAS Infrastructure Management System  
**NIP** Network Interface Processor  
**NIR** Network Interface Router  
**NIRV** Network interface Router VDL  
**NIS** Not-In-Service  
**NIST** National Institute of Standards and Technology  
**N-Layer** N is set for any layer name (such as link, network, etc.) or for the initial (e. g. N-SDU means LSDU at the link layer). OSI model definition.  
**NL** Low-Pressure Gas Generator RPM  
**NLM** Network-Loadable Module  
**NLP** Network Layer Protocol  
**NLR** Netherlands National Aerospace Laboratory  
**NLT** Not Less Than  
**NM or NMI** Nautical Mile  
**NM** Network Management  
**NMC** National Meteorological Center  
**NMCCD** Network Management Category Class Diagram  
**NMCD** Network management Category Diagram  
**NMF** Network Management Function  
**NMIRS** Network Management Interface Requirements Specification  
**NMOS** N-type Metal Oxide Semiconductor  
**NMP** Network Management Plan  
**NMS** Network Management System  
**NMT** Not More Than  
**NNN** “N”s are used to represent a generic number. Typically, multiple Ns represent a frequency.  
**NOAA** National Oceanic and Atmospheric Administration  
**NOC** Notice Of Change  
**NOCAR** North Atlantic Oceanic Concept and Requirements  
**NOCC** National Operations Control Center  
**NO COM** No Communication. A NO COM annunciation indicates that a downlink message has not been acknowledged in an ACARS system.  
**NOI** Notice of Inquiry  
**Noise** Undesired random electromagnetic disturbances or spurious signals that are not part of the transmitted or received signal.  
**NOP** Notification of Problem  
**NOPAC** North Pacific  
**NOTAM** Notice to Airmen  
**NOTUS** Notice to Users (ARINC)  
**NPA** Non-Precision Approach  
**NPDU** Network Protocol Data Unit  
**NPRM** Notice of Proposed Rule Making  
**NR** Network Router  
**NRD** Network Routing Domain  
**NRP** National Route Program  
**NRZ** Non-Return to Zero  
**NS** Network Service  
**NSAP** Network Service Access Point  
**NSDU** Network Service Data Unit  
**NSEU** Neutron Single Event Upset  
**NSSL** National Severe Storms Laboratory  
**NTF** No Trouble Found. (Referring to testing or checkout of unit/module.)

**NTIA** National Telecommunications and Information Administration (U.S.)

**NTSB** National Transportation Safety Board

**NUI** Network User Identification

**NVG** Night Vision Goggles

**NVM** Non-Volatile Memory

**NVRAM** Non-Volatile RAM

**NWS** National Weather Service. The NWS provides a ground-based weather radar network throughout the United States. The radar network operates continuously and transmits the data to the National Meteorological Center, where it correlates with other weather observations.

**OAC** Oceanic Area Control Center

**OAG** Official Airline Guide

**OAS** Oceanic Automation System

**OAT** ( 1 ) Operational Acceptance Test . ( 2 ) Optional Auxiliary Terminal. The OAT may be in the form of a CRT/Keyboard device capable of interfacing with other sources of data on the aircraft and supplying data to a hard copy printer. (Used in an ACARS system.) . ( 3 ) Outside Air Temperature. The uncorrected reading of the outside temperature gauge. Different types of gauges require different correction factors to obtain static air temperature.

**OATS** Orbit and Attitude Tracking

**OBP** Operational Build Plan

**OBS** ( 1 ) Omnibearing Selector. A panel instrument that contains the controls and circuits to select an omnibearing and determine the TO-FROM indication. . ( 2 ) Optical Bypass Switch

**OCA** Oceanic Control Area

**OCC** Operations Control Center

**OCD** Oceanic Clearance Delivery

**OCIG** Oceanic Communications Improvement Group

**OCL** Oceanic Clearance

**OCM** Options Configuration Module

**OCP** Oceanic Clearance Processor

**Octal** Base-8 counting system. Numbers include 0, 1, 2, 3, 4, 5, 6, 7.

**ODAPS** Oceanic Display And Planning System. Will present oceanic flight data to controllers in a display that will enable better route and altitude assignments.

**ODAR** Organizational Designated Airworthiness Representative

**ODID** Operational Display and Input Development

**ODL** ( 1 ) Optical Data Link . ( 2 ) Oceanic Data Link

**ODN** Open Data Network

**OEM** Original Equipment Manufacturer

**OEU** Overhead Electronics Units

**Off-Block Time** The time that the aircraft leaves the gate.

**Off-Side** Same as cross-side of the cockpit.

**OFP** Operational Flight Program

**OFST** Offset

**OGE** Operational Ground Equipment

**OHU** Overhead Unit (HUD)

**OID** Outline Installation Drawing

**OIU** Orientation/Introduction Unit

**OLAN** Onboard Local Area Network

**OLDI** On-Line Data Interchange

**O&M** Operating and Maintenance

**OM** Outer Marker Beacon: MB used in conjunction with ILS, intercepts glideslope approximately 1400 feet above touchdown.

**OMD** Onboard Maintenance Documentation

**OMEGA** A navigation system that uses two high-powered transmitter ground stations to broadcast a continuous wave signal. The receiver measures the range difference between the two stations to determine position.

**Omnibearing** The bearing indicated by a navigational receiver on transmissions from an omnidirectional radio range (VOR).

**OMS** ( 1 ) Onboard Maintenance System. ( 2 ) Order Management System

**OMT** Object Modeling Technique

**ON-SIDE** Refers to a pilot or copilot's own side of the cockpit. **OOA** Object Oriented Analysis

**OOD** Object Oriented Design

**OOOI** OUT-OFF-ON-IN. An OOOI event is recorded as part of the ACARS operation. The OUT event is recorded when the aircraft is clear of the gate and ready to taxi. The OFF event occurs when the aircraft has lifted off the runway. The ON event occurs when the aircraft has landed. The IN event occurs when the aircraft has taxied to the ramp area.

**On-Block Time** The time that the aircraft arrives at the gate.

**OP** Operational

**OPC** Operational Program Configuration

**OPT** Optimum

**OPAS** Overhead Panel ARINC 629 System

**OPBC** Overhead Panel Bus Controller

**OPC** Operational Program Configuration

**OPER** Operation

**OPR** Once Per Revolution

**OPS** ( 1 ) Operations Per Second . ( 2 ) Operational Program Software

**OPSPECS** Operational Specifications

**OPU** Overspeed Protection Unit

**O-QAR** Optical Quick Access Recorder

**OR** Operational Requirements

**ORIG** Origin

**ORT** Owner's Requirement Table

**OS** Operating System

**OSC** Order Status Report

**OSDS** Oceanic System Development Support

**OSI** ( 1 ) Open Systems Interconnection . ( 2 ) Open System Interface

**OSIE** OSI Environment

**OSI-RM** Open Systems Interconnection Reference Model

**OSPF** Open Shortest Path First

**OT&E** Operational Test and Evaluation

**OTA** Office of Technology Assessment (U.S.)

**OTFP** Operational Traffic Flow Planning

**OTH** Over The Horizon

**OTP** Office of Telecommunications Policy (U.S.)

**OTS** Off-The-Shelf

**OVRD** Override

**OVS** Overhead Video System

**oxy** Oxygen

**PA** ( 1 ) Passenger Address . ( 2 ) Power Amplifier

**PAC** Path Attenuation Compensation (Correction): A warning annunciation of the weather radar. It tells the pilot there is a significant weather activity on that bearing.

**PA/CI** Passenger Address/Cabin Interphone

**PACIS** Passenger Address and Communication Interphone System

**PAD** Packet Assembler-Disassembler

**Paired Channels** DME channels are paired with a VORTAC or ILS frequency and are automatically selected when the VORTAC or ILS frequency is selected. Most navigation controls have this feature.

**PAL** Programmable Array Logic

**PAM** Pulse Amplitude Modulation

**PAMB** Pressure, ambient

**PANS-OPS** Procedures for Air Navigation Services-Aircraft Operations

**PAPI** Precision Approach Path Indicators

**PAR** Precision Approach Radar. An X-band radar that scans a limited area and is part of the ground controlled approach system.

**PAS** Passenger Address System

**PAT** ( 1 ) Pilot Applications Terminal . ( 2 ) Primary Access Terminal

**PAU** Passenger Address Unit

**PAV** Presence And Validity

**PAVES** Programmable Audio Video Entertainment System

**PAWES** Performance Assessment and Workload Evaluation

**PAX** Passenger

**PBA** Push Button Annunciator

**PBD** Place Bearing/Distance (waypoint)

**PBID** Post Burn-In Data

**PBX** Private Branch Exchange  
**PC** ( 1 ) Personal Computer . ( 2 ) Printed Circuit  
**P-Code** The GPS precision code  
**PCA** P physical Configuration Audit  
**PCB** Printed Circuit Board  
**PCC** Pilot Controller Communication  
**PCI** ( 1 ) Protocol Control Information. The N-PCI is exchanged between peer network members (OSI Model) to coordinate joint information. . ( 2 ) Peripheral Computer Interface/Interconnect  
**PCIP** Precipitation  
**PCM** Pulse Code Modulation  
**PCMCIA** Personal Computer Memory Card Interface Association  
**PCU** ( 1 ) Passenger Control Unit . ( 2 ) Power Control Unit  
**PD** Profile Descent  
**PDA** Premature Descent Alert  
**PDB** Performance Data Base  
**PDC** Pre-Departure Clearance  
**PDCU** Panel Data Concentrator Unit  
**PDD** Package Design Document  
**PDDI** Product Definition Data Interface. Standardizes digital descriptions of part configurations and properties needed for manufacturing.  
**PDF** ( 1 ) Primary Display Function . ( 2 ) Portable Document Format  
**PDL** ( 1 ) Program Design Language . ( 2 ) Portable Data Loader  
**P-DME** Precision Distance Measuring Equipment  
**PDN** Public Data Network (CC ITT/ISD)  
**PDOP** Position Dilution Of Precision. AGPS term for error introduced into the GPS calculations.  
**PDOS** Powered Door Opening System  
**PDR** Preliminary Design Review  
**PDS** Primary Display System  
**PDU** ( 1 ) Power Distribution Unit . ( 2 ) Power Drive Unit . ( 3 ) Protocol Data Unit. The N-PDU is a combination of the N-PCI and the N-UD or N-SDU. The N-PDU is the total information that is transferred between peer network members (OSI Model) as a unit.. ( 4 ) Pilot Display Unit  
**PECT** Peer Entity Contact Table  
**PEP** Peak Envelope Power  
**PERF** Performance  
**Performance Index** A relative number used to compare the performance of different radar systems. It is calculated from transmitter peak power, antenna gain, pulse width, prf, antenna beam width and the receiver noise figure.  
**PERT** Program Evaluation Review Technique  
**PES** Passenger Entertainment System  
**PET** Pacific Engineering Trials  
**PETAL** Preliminary Eurocontrol Test of Air/Ground Data Link  
**PETAL II** Preliminary Eurocontrol Test of Air/Ground Data Link, Phase II  
**PETAL IIe** Preliminary Eurocontrol Test of Air/Ground Data Link, Phase II Extension  
**PF** ( 1 ) Pilot Flying . ( 2 ) Power Factor  
**PFC** Primary Flight Computer  
**PFCs** Primary Flight Control System  
**PFD** ( 1 ) Primary Flight Director . ( 2 ) Primary Flight Display. An EFIS presentation substituting for the ADI.  
**PFIS** Passenger Flight Information System  
**PFOV** Primary Field Of View  
**PFR** Pulse Repetition Frequency. The rate at which pulses are transmitted.  
**PFS** Product File Sets  
**PGA** Pin Grid Array  
**PHARE** Program for Harmonized ATC Research in Europe  
**PHIBUF** Performance Buffet Limit  
**PHINOM** Nominal Bank Angle  
**PHY** Physical Interface Device  
**Phase Modulation** A signal in which the phase varies (with respect to the original signal) with the amplitude of the modulatory signal, while the amplitude of the carrier wave remains constant. Similar to a modified frequency modulated signal.  
**PI** Parameter Identifier  
**PIA** Performance Integrity and Availability

**PICS** Protocol Implementation Conformance Statements

**PID** ( 1 ) Parameter Identifier . ( 2 ) Primitive Identifier . ( 3 ) Process Identifier

**PI/O** Processor Input/Output

**PIRE** Production or Pipe Internal Roll Extrusion

**PIREPS** Pilot Reports

**Pitot Pressure** The sum of the static and dynamic pressures and is the total force per unit area exerted by the air on the surface of a body in motion.

**Pitot Tube** A forward facing probe attached to the outside of the aircraft to sense the relative pressure of the aircraft moving through the atmosphere. Named for Henri Pitot who first used this method of measuring fluid flow pressure.

**PL** Parameter Length

**PLA** ( 1 ) Power Level Angle . ( 2 ) Programmable Logic Array

**PLGR** Precision Lightweight GPS Receiver

**PLL** Phase Locked Loop

**PLT** Project Leadership Team

**PM** Phase Modulation

**PMA** ( 1 ) Parts Manufacturing Approval . ( 2 ) Permanent Magnet Alternator

**PMAT** Portable Maintenance Access Terminal

**PMC** ( 1 ) Provisional Memory Cover . ( 2 ) PCI Mezzanine Card

**PME** Processor/Mass Storage Equipment

**PMG** Permanent Magnet Generator

**PMO** Program Management Office

**PMOS** P-Type Metal Oxide Semiconductor

**PMR** Precision Multi-mode Radar

**PMRs** Program Management Reviews

**PMS** Performance Management System

**PN** ( 1 ) Part Number ( 2 ) Pseudo Noise

**PNCS** Performance Navigation Computer System

**PND** Primary Navigation Display

**PNEU** Pneumatic

**PNF** Pilot Not Flying

**PNR** Point of No Return

**POA** Plain Old ACARS

**POC** Proof Of Concept. A Demonstration, in a full operational environment, of the proposed concept, system, facilities, weather conditions, crew complement, related aircraft systems and any other relevant parameters necessary to show concept validity. Acceptable performance, system reliability, repeatability, and typical pilot response to failures must be successfully demonstrated. The demonstration itself is not a certification program.

**POI** Principal Operations Inspector

**POP** Point of Presence

**POR** Pacific Ocean Region

**POS** Position

**POSINIT** Position Initialization

**POSIX** Portable Operating System Interface

**POSREF** Position Reference

**POT** Potentiometer

**POST** Power-On Self-Test

**POTS** Plain Old Telephone System/Service

**P/PAP** Product/Process Assurance Plan

**PPC** Power PC

**PPDU** Physical Layer Protocol Data Unit

**PPI** Planned Position Indicator. A type of radar display which shows aircraft positions and airways chart on the same display.

**PPL** Processor-to-Processor Link

**ppm** pages per minute

**PPM** ( 1 ) Pulse Position Modulation . ( 2 ) Parts Per Million

**PPOS** Present Position

**PPP** Point-to-Point Protocol

**PPS** ( 1 ) Packets Per Second. ( 2 ) Precise Positioning Service. ( 3 ) Pulse Per Second

**PR** Problem Report

**PRAIM** Predictive Receiver Autonomous Integrity Monitoring

**PRAM** Prerecorded Announcement Machine

**PRELIM** Preliminary Data

**PRESS** Pressure

**Pressure Altitude** The altitude measured above standard pressure level. Based on the relationship of pressure and altitude with respect to a standard atmosphere.

**PREV** Previous

**Preventive Advisory** A resolution advisory that instructs the pilot to avoid certain deviations from current vertical rate (TCAS)

**PRF** Pulse Repetition Frequency

**PRI** ( 1 ) Primary . ( 2 ) Primary Rate Interface

**Primary Means of Navigation** A means of navigation which satisfies the necessary levels of accuracy and integrity for a particular area, route, procedure or operation. The failure of a “Primary Means” of navigation may result in, or require reversion to a “non-normal” means of navigation, or an alternate level of RNP. Qualification as a “primary means” of navigation typically requires that ANP/EPU be less than RNP for 99.99% of the time.

**PRM** ( 1 ) Precision Runway Monitoring. ( 2 ) Proposed Rule Making

**PRN** Pseudo Random Noise

**PRNAV** NND-1/Precision Area Navigation

**PROC** Procedure

**PROF** Profile

**PROG** Progress Page on MCDU

**PROM** Programmable ROM

**P-RNAV** NND-1/Precision Area Navigation

**Protocol** A set of rules for the format and content of messages between communicating processes.

**PROV** Provisional

**PROX** Proximity

**PRSOV** Pressure Regulating and Shutoff Valve

**P/RST** Press To Reset

**PRTR** Printer

**PS** Power Supply

**PSA** ( 1 ) Power Supply Assembly . ( 2 ) Preselect Altitude

**PSAA** Product Support & Assurance Agreement

**PSAS** Primary Stability Augmentation System

**PSCP** Project Specific Certification Plans

**PSCU** Programmable System Control Unit

**PSD** Port Sharing Device

**PSDN** Packet Switched Data Network

**PSE** Power Supply Equipment

**PSEU** Proximity Sensor Electronic Unit

**PSID** Pounds per square inch Differential

**PSIG** Pounds per square inch Gage

**PSL/PSA** Problem Statement Language/Problem Statement Analyzer

**PSM** ( 1 ) Power Supply Modules . ( 2 ) Product Support Managers

**PSN** Packet Switching Network

**PSP** Partnership for Safety Plan

**PSPL** Preferred Standard Parts List

**PSR** Primary Surveillance Radar. The part of the ATC system that determines the range and azimuth of an aircraft in a controlled air space.

**PSS** Proximity Sensor System

**PSSA** Preliminary System Safety Assessment

**PSU** Passenger Service Unit

**PT** Total Pressure

**PTR** Production Test Requirements

**PTCH** Pitch: Movement about the lateral (left to right) axis of the aircraft.

**PTD** Performance Test Domain

**PSE** Packet Switching Exchange

**PSTN** Public Switched Telephone Network

**PTH** Path

**PTI** Packet Type Identifier

**PTM** Peripheral Transition Module (I/O interface for SBC)

**PTR** Production Test Requirements

**PTS** Problem Tracking System  
**PTSD** Production Test Specification Document  
**PTT** ( 1 ) Post, Telephone and Telegraph . ( 2 ) Push To Talk. Also refers to the switching signal that enables the transmitter. ( 3 ) Push To Test  
**PTU** Power Transfer Unit  
**PVD** Plan View Display  
**PV** Parameter Value  
**PVC** Permanent Virtual Circuit  
**PVT** Position, Velocity, Time  
**PWB** Printed Wire Boards  
**PWM** Pulse-Width Modulation  
**PWR** Power  
**PWS** Predictive Windshear System  
**QAM** Quadrature Amplitude Modulation  
**QAR** Quick Access Recorder  
**QC** Quality Control  
**QEC** Quadrantal Error Corrector  
**QFE** A method of setting the altimeter to compensate for changes in barometric pressure and runway elevation. Pilot receives information from airfield and adjusts his altimeter accordingly and it will read zero altitude at touchdown on the runway.  
**QM** Quality Management  
**QMP** Quality Management Plan  
**QNE** The method of setting the altimeter to the standard atmosphere datum-29.92 inches of mercury (1,013.25 mb). This setting is used in the United States airspace by all aircraft above FL 180.  
**QNH** The more common method of setting the altimeter to compensate for changes in barometric pressure. Pilot receives information from airfield, adjusts his altimeter accordingly and the altimeter will read airfield elevation at touchdown.  
**QOP** Quality Operating Procedures  
**QoS** Quality of Service  
**QRH** Quick Reference Handbook  
**QTY** Quantity  
**QUAD** Quadrant  
**Quadrantal Error** Error in the relative bearing caused by the distortion of the received radio signal (RF fields) by the structure of the aircraft.  
**R** ( 1 ) Right ( 2 ) Route Tuned NAVAID ( 3 ) Rudder  
**RA** ( 1 ) Resolution Advisory (generated by TCAS) ( 2 ) Radio Altimeter ( 3 ) Routing Area .( 4 ) Radio Altitude: The absolute altitude (height) above the ground. Measured by a radio altimeter system.  
**RAA** Regional Airline Association  
**Rabbit Tracks** Rabbit Tracks, or running rabbits, refer to the distinctive display produced by another (alien radar) radar system transmission.  
**RAD** ( 1 ) Radial ( 2 ) Radio ( 3 ) Rapid Application Development  
**Radar** Radio Detecting and Ranging. A system that measures distance and bearing to an object.  
**Radar Mile** The time interval (approximately 12.359 microseconds) required for radio waves to travel one nautical mile and return (total of 2 nmi).  
**Radial** A line of direction going out from a VOR station measured as a bearing with respect to magnetic north.  
**RAE** Regional Airworthiness Engineer (Canadian)  
**Radome** The radome is the protective cover on the aircraft nose that fits over the weather radar system antenna. The radome is transparent at radar frequencies.  
**RAF** Requirements Analysis Folder  
**RAI** Radio Altimeter Indicator  
**RAIM** Receiver Autonomous Integrity Monitoring  
**RALT** Radio Altimeter (also RA, RA DA LT, LRA, LRRA)  
**RAM** Random Access Memory. Generally used to describe read/write integrated circuit memory.  
**RAPPS** Remote Area Precision Positioning System  
**RAS** ( 1 ) Row Address Strobe ( 2 ) Reference Approach Speed  
**RCP** Required Communication Performance  
**RAT** RAM Air Temperature is the temperature of the air entering an air scoop inlet. It is a factor in engine performance.  
**RC** Rockwell Collins  
**R/C** Rate of Climb  
**R-C** Resistor-Capacitor network

**R-C&W** Rack Connectors and Wiring  
**RCAG** Remote Center Air/Ground Station  
**RCC** Remote Charge Converter  
**RCE** Radio Control Equipment  
**RCFD** Rockwell Collins Flight Dynamics  
**RCL** ( 1 ) Radio Communications Link ( 2 ) Recall  
**RCO** Remote Communications Outlet  
**RC-MAP** Rockwell Collins Management Authorization Process  
**RCP** ( 1 ) Radio Control Panel. ( 2 ) Required Communications Performance  
**RCR** Routing and Circuit Restoral  
**RC-TCP** Rockwell Collins Technical Consistent Process  
**RCU** Remote Control Unit  
**RCVR** Receiver  
**R&D** Research and Development  
**Rd** R-Channel used for data  
**RDARA** Regional Domestic Air Route Area  
**RDC** ( 1 ) Routing Domain Confederation . ( 2 ) Remote Data Concentrator  
**RDF** Routing Domain Format  
**RDI** Routing Domain Identifier  
**RDMI** Radio Distance Magnetic Indicator  
**RDP** Radar Data Processing (system)  
**RDR** Radar  
**RDSS** Radio Determination Satellite Service  
**RDU** ( 1 ) Receiver/Decoder Unit . ( 2 ) Remote Display Unit  
**RDV** Requirements Development and Validation  
**RDVS** Rapid Deployment Voice Switch  
**RECAP** Reliability Evaluation and Corrective Action Program  
**REF** Reference  
**REFL** Reflection  
**Reflectivity Factor (Z)** This is a measurement of the ability of a target to reflect the energy from a radar beam.  
**Relative Bearing** The bearing of a ground station relative to the direct ion the aircraft nose points, or the direction of an aircraft to or from an NDB.  
**REL** Relative  
**Remote** A probability of occurrence greater than  $1 \times 10^{-7}$  but less than or equal to  $1 \times 10^{-5}$  per hour of flight, or per event (e.g. takeoff, landing)  
**REP** Reliability Enhancement Program  
**REQ** ( 1 ) Request . ( 2 ) Required/Requirement  
**RER** Residual Error Rate  
**Resolution Advisory** A display indication given to the pilot recommending a maneuver to increase vertical separation relative to an intruding aircraft. A resolution advisory is also classified as corrective or preventive.  
**RESTR** Restriction  
**RESYNCING** Resynchronizing  
**RET** ( 1 ) Rapid Exit Taxiway . ( 2 ) Reliability Evaluation Test  
**REU** Remote Electronics Unit  
**RF** Radio Frequency. A general term for the range of frequencies above 150 kHz, to the infrared region (1012 Hz).  
**RFC** Request for Comments  
**RFD** Reconfigurable Flight Deck  
**RFI** ( 1 ) Radio Frequency Interference . ( 2 ) Request For Information  
**RFP** Request For Proposal  
**RFSIVV** Requirements Functional allocation Synthesis Integration Verification Validation  
**RFTP** Request For Technical Proposal  
**RFU** Radio Frequency Unit  
**RGB** Red/Green/Blue  
**RGCSPP** Review of the General Concept of Separation Panel  
**RH** Radio Handler  
**RHI** Range and Height Indicator  
**RHO** Response on Handoff  
**RHSM** Reduced Horizontal Separation Minima  
**RIB** ( 1 ) Right Inboard . ( 2 ) Routing Information Base  
**RIP** Routing Information Protocol

**RIPS** Recorder Independent Power Supply  
**RISC** Reduced Instruction Set Computer  
**RIU** Radio Interface Unit  
**RJ** Regional Jet  
**R/L** Red Label  
**RA** Radio Altitude  
**RLD** Rijksluchtvaartdienst (The Netherlands' Civil Aviation Agency)  
**RLE** Response on Link Establishment  
**RLG** Ring Laser Gyros  
**RLI** Relative Location Indicator  
**RLP** Ring Laser Gyro  
**RLS** ( 1 ) Reliable Link Source . ( 2 ) Remote Light Sensor  
**RLY** Relay  
**R&M** Reliability and Maintainability  
**RM&A** Reliability Maintainability and Availability  
**RMA** Remote Maintenance Access  
**RMI** Radio Magnetic Indicator  
**RMMS** RM Management System  
**RMP** ( 1 ) Radio Management Panel. ( 2 ) Remote Maintenance Panel  
**RMT** Remote  
**R-NAV** Area Navigation  
**RNG** Range  
**RNGA** Range Arc  
**RNP** Required Navigation Performance. A statement of the navigation performance necessary for operation within a defined airspace.  
**RNR** Receive Not Ready  
**RNTP** Radio Nav Tuning Panel  
**RO** ( 1 ) Radio Operator . ( 2 ) Roll Out  
**ROA** Recognized Operating Agency  
**ROB** Right Outboard  
**ROC** ( 1 ) Rate Of Climb . ( 2 ) Rate of Operational Capability  
**ROD** Rate Of Descent  
**ROL** Roll  
**ROLL** Movement about the longitudinal (front to back) axis of the aircraft.  
**Rollout** Rollout starts from the first contact of the wheels with the runway and finishes when the airplane has slowed to a safe taxi speed (in the order of 30 knots).  
**ROM** ( 1 ) Read Only Memory . ( 2 ) Rough Order of Magnitude  
**RON** Remain Over Night  
**ROT** Runway Occupancy Time  
**ROTHR** Relocatable Over-The-Horizon Radar  
**ROUTE** An ordered group of flight reference points (Airports, Navaids, Geographic Reference Points, etc.) representing part or all of a planned flight path.  
**RP** Routing Protocol  
**RPDU** Remote Power Distribution Unit  
**RPI** Rapid Process Improvement  
**RPM** Revolutions Per Minute  
**RPOA** Recognized Private Operation Agency (CCITT)  
**RR** Receiver Ready  
**RRI** Router Reference Implementation  
**RSDP** Reliable Sequencing Delivery Confirmation Protocol  
**RSN** Regional Subnetwork  
**RSP** ( 1 ) Required Surveillance Performance . ( 2 ) Reversion Switch Panel  
**RSSI** Received Signal Strength Indicator  
**RT** ( 1 ) Radio Telecommunication . ( 2 ) Receiver-Transmitter (R/T). Also referred to as a transceiver. (See T/R)  
**RTA** ( 1 ) Receiver-Transmitter Antenna . ( 2 ) Required Time of Arrival  
**RTC** Real-Time Clock  
**RTCA** Radio Technical Commission for Aeronautics  
**RTCADO-160** RTCA Document 160, Environmental Conditions and Test Procedures for Airborne Equipment, Issued 12/04/89

**RTCADO-178** RTCA Document 178, Software Considerations in Airborne Systems and Equipment Certification, issued 03/22/85

**RTE** Route

**RTF** Radio telephony

**RTI** Real-Time Interrogate

**RTM** Radio Transmission Module

**RTP** Reliability Test Plan

**RTO** Rejected Takeoff

**RTOS** Real-Time Operating System

**RTP** Radio Tuning Panel

**RTR** Remote Transmitter Receiver Site

**RTS** ( 1 ) Request To Send . ( 2 ) Real-Time Studio

**RTSP** Required Total System Performance

**RTSS** Rotable Total Service Solutions

**RTTI** Run-Time Type Identification

**RTU** Radio Tuning Unit: A control for tuning communication and navigation radios.

**RTW** Real-Time Workshop

**RU** Rack Unit

**Runway Incursion** The act of inadvertently crossing the runway holding point without ATC clearance.

**RVDT** Rotary Voltage Differential Transducer

**RVR** Runway Visual Range

**RVSM** Reduced Vertical Separation Minimum

**R/W** Read/Write

**RW** Runway

**RWM** Read-Write Memory. A memory in which each cell is selected by applying appropriate electrical input signals, and the stored data may be either sensed at the appropriate output terminal or changes in response to other electrical input signals.

**RWS** Reactive Windshear System

**RWY** Runway

**Rx** Receiver

**RZ** Return to Zero

**S** South

**S0** Segment 0

**S1** Segment 1

**SA** ( 1 ) Selective Availability . ( 2 ) Situation Awareness

**SAA** Service Access Area (VHF Cat B ACARS)

**SAAAR** Special Aircraft/Aircrew Authorization Required

**SAARU** Secondary Attitude Air Data Reference Unit

**SAE** Society of Aeronautical Engineers

**SAI** System Architecture and Interface

**SAL** System Address Label (ARINC 429)

**SAMA** Small Aircraft Manufacturers Association

**SAP** Service Access Points

**SAR** Search and Rescue

**SARPS** Standards And Recommended Practices (ICAO)

**SAS** ( 1 ) Stability Augmentation System. ( 2 ) Station Address Set

**SAT** ( 1 ) Static Air Temperature is the total air temperature corrected for the Mach effect. Increases in airspeed cause probe temperature to rise presenting erroneous information. SAT is the outside air temperature if the aircraft could be brought to a stop before measuring temperatures. . ( 2 ) System Acceptance Test

**SATCOM** Satellite Communications

**SATNAV** Satellite Navigation

**SB** Service Bulletin

**SBAS** Space Based Augmentation System

**SBC** Single Board Computer

**SBD** Schematic Block Diagram

**SBE** Single Bit Error

**S/C** Step Climb

**SC** Special Committee

**SCAN ANGLE** Angle of the weather reflectivity information with respect to the aircraft heading.

**SCAT** Special Category

**SCAT-1** Special Category 1 Approach System  
**SCD** ( 1 ) Specification Control Drawing . ( 2 ) System Category Diagram  
**SCDU** Satellite Control Data Unit  
**SCE** Servicing Customers Engineer  
**SCID** Software Configuration Index Drawing  
**SCIU** Radio Altimeter Indicator  
**SCM** Software Configuration Management  
**SCPC** Single Carrier Per Channel  
**SCQA** Supply Chain Quality Assurance  
**SCR** Special Certification Review  
**SCS** Single Channel Simplex. A communication system that uses simplex.  
**SCSI** Small Computer System Interface  
**SCT** System Configuration Table  
**SCU** ( 1 ) Signal Conditioning Unit. ( 2 ) Signal Conversion Unit  
**SD** ( 1 ) Side Display . ( 2 ) Storm Detection. It is the designation for the hourly transmitted radar observations from the NWS and ARTCC radars. Individual SDs are combined and transmitted once an hour as collectives ( SDUs) over the aviation teletype circuits.  
**SD&AHWG** System Design & Analysis Harmonization Working Group  
**SDD** ( 1 ) Standard Disk Drive . ( 2 ) Sensor Display Driver. ( 3 ) System Description Document  
**SDF** Simplified Directional Facility  
**SDI** Source Destination Identifier: A bit field contained in serial data words that tell the source or destination of the data in that word.  
**SDM** ( 1 ) Speaker Drive Module.( 2 ) Service Delivery Management  
**SDP** Surveillance Data Processing  
**SDRAM** Synchronous Dynamic Random Access Memory  
**SDRL** Supplier Data Requirements List  
**SDU** ( 1 ) Satellite Data Unit . ( 2 ) Sensor Display Unit . ( 3 ) Service Data Unit  
**SEB** Seat Electronics Box  
**SEC** Secondary  
**SED** Secondary EICASD is play  
**SEI** ( 1 ) Software Engineering Institute .( 2 ) Standby Engine Indicator  
**SEL** ( 1 ) Select . ( 2 ) Selector Identifier  
**SELCAL** Selective Calling System. A system used in conjunction with HF and VHF communication systems that allows a ground-based radio operator to call a single aircraft or group of aircraft without the aircraft personnel monitoring the ground station radio frequency.  
**SENS** Sensor  
**Sensitivity Level Command** An instruction given to the TCAS equipment for control of its threat volume.  
**SEPC** Secondary Electrical Power Contactor  
**SEPP** Stress Evaluation Prediction Program  
**SERNO** Serial Number  
**SEU** ( 1 ) Single Event Upset . ( 2 ) Seat Electronics Unit  
**SFAR** Special Federal Aviation Regulation  
**SFDF** Subsystem Fault Detection Function  
**SFE** Supplier Furnished Equipment  
**SG** Signal Generator  
**SGML** Standard Generalized Markup Language.  
**SGS** Surface Guidance System  
**SI** ( 1 ) Selective Interrogation . ( 2 ) Standby Instruments . ( 3 ) Supporting Interrogator . ( 4 ) Supplementary Information  
**SIAP** Standard Instrument Approach Procedure  
**SICAS** Secondary Surveillance Radar Improvements and Collision Avoidance System  
**SICASP** Secondary Surveillance Radar Improvements And Collision Avoidance System Panel  
**SID** Standard Instrument Departure  
**Sidetone** The reproduction of sounds in a headset (or speaker) from the transmitter of the same communication set. This allows a person to hear his/her own voice when transmitting.  
**SIF** ( 1 ) Standard Interchange Format . ( 2 ) System Integration Facility  
**SIGMETS** Significant Meteorological Observations  
**SIL** ( 1 ) Systems Integration Lab . ( 2 ) Service Information Letter  
**Simplex** A communication operation that uses only a single channel for transmit and receive operations. Communications can take place in only one direction at a time.

**SINAD** Signal-plus-Noise-plus-Distortion to Noise-plus-Distortion-Ratio  
**SIP** Single In-line Package  
**SITA** Societe Internationale de Telecommunications Aeronautiques  
**SITP/D** System Integration Test Plan/Description  
**SIT** System Integration and Test  
**SITR** System Integration Test Report  
**SIU** Satellite Interface Unit  
**SKP** Skip  
**Skywave** A radio wave that is reflected by the ionosphere. Depending upon the state of the ionosphere, the reflected radio wave may propagate along the layer of the ionosphere or be reflected at some angle. It is also known as ionospheric or indirect wave.  
**SL** Sensitivity Level  
**S/L** Sub-Level  
**SLA** Service Level Agreement  
**Slant Range** The line-of-sight distance from the aircraft to a DME ground station.  
**SLC** Synchronous Link Control  
**SLH** System Level Health  
**SLI** System Level Interface  
**SLM** Standard Length Message  
**SLoC** Source Lines of Code  
**SLS** Side-Lobe Suppression. A system that prevents a transponder from replying to the side-lobe interrogations of the SSR. Replying to side-lobe interrogations would supply false replies to the ATC ground station and obscure the aircraft location.  
**SLUC** System Level Use Case  
**SLV** ( 1 ) Service Level Verifier . ( 2 ) Sync Lock Valve  
**SM** System Monitor  
**SMA** Surface Movement Advisor  
**SMC** System Management and Communication  
**SMD** Surface Mount Device  
**SMDS** Switched Multi-megabit Data Service  
**SME** System Management Entity  
**SMGCS** Surface Movement Guidance and Control Systems  
**SMI** Standard Message Identifiers  
**SMLS** Seamless Pipe and Tube  
**SMS** Spectrum Monitoring System  
**SMT** ( 1 ) Aileron/Rudder Servo Mount .( 2 ) Elevator Servo Mount ( 3 ) Servo Mount ( 4 ) Stabilizer Trim Servo Mount . ( 5 ) Standard Message Text ( 6 ) Station Management ( 7 ) System Maintenance Task  
**SN** Subnetwork  
**SNA** System Network Architecture  
**SNAC** Subnetwork Access  
**SNAcP** Subnetwork Access Protocol  
**SNCR** Subnetwork Connection Reference  
**SNDCF** Subnetwork Dependent Convergence Function  
**SNDCP** Subnetwork Dependent Convergence Protocol  
**SNICF** Subnetwork Independent Convergence Function  
**SNLE** Subnetwork Link Establishment  
**SNMP** Simple Network Management Protocol  
**SNPA** Subnetwork Point of Attachment  
**SNPDU** Subnetwork Protocol Data Unit  
**SNR** Signal-to-Noise Ratio  
**SNSDU** Subnetwork Service Data Unit  
**SOF** Safety Of Flight  
**SOH** Start of Header  
**SOI** System Operator Instructions  
**SOIT** Satellite Operational Implementation Team  
**SOM** Software Operator Manual  
**SON** Statement of Operational Need  
**SOP** Standard Operating Procedure  
**SOPA** Standard Operating Procedure Amplified  
**SOS** Silicon On Sapphire

**SOW** Statement Of Work

**SP** Space

**SPATE** Special Purpose Automatic Test Equipment

**SPC** Statistical Process Control

**SPD** Speed

**SPE** Seller Purchased Equipment

**Speed of Light** Represented by the symbol  $c$  and has a value of  $2.9979250 \times 10^8$  meters/second or 983,571,194 feet/second.

**SPI** Special Position Identification

**SPIP** Designation for a transponder ident pulse.

**SPKR** Speaker

**SPM** ( 1 ) Stabilizer Position Modules ( 2 ) Surface Position Monitor ( 3 ) Support Plan Manager

**Spoking** Refers to a display presentation that radiates outward from the display origin like the spokes on a wagon wheel.

**SPR** Sync Phase Reversal. (Term is used in Mode S transponders.)

**SPS** ( 1 ) Sensor Processing Subsystem . ( 2 ) Standard Positioning Service

**SQ or Sqi** Squelch

**SQ** Service Quality

**SQB** Service Quality/Billing Processor

**SQD** Service Quality Data

**SQL** Structured Query Language

**SQP** Signal Quality Parameter

**Squall Line** A squall line is a line of thunderstorms and developing thunderstorms.

**Squawk** Reply to interrogation signal (XPD).

**Squelch** A control and/or circuit that reduces the gain in response of a receiver. The squelch is used to eliminate the output noise of the receiver when a signal is not being received.

**Squitter** ( 1 ) The random pulse pairs generated by the ground station as a filler signal. ( 2 ) The transmission of a specified reply format at a minimum rate without the need to be interrogated. (Filler pulses transmitted between interrogations) [XPD]. ( 3 ) Spontaneous Transmission generated once per second by transponders.

**SR** Service Request

**SRADD** Software Requirements And Design Description

**SRAM** Static Random Access Memory

**SRD** Systems Requirements Document

**SREJ** Selective Reject

**SRM** Selective Reject Mode

**SRN** Short Range Navigation-term used to encompass VOR/LOC/DME/MB Navigation, or a sub-set there-of.

**SRP** Selected Reference Point

**SRR** Satellite Recognition Receiver

**SRT** Satellite Receiver Transmitter

**SRU** Shop Replaceable Unit

**S/S** ShipSet

**SSA** System Safety Assessment

**SSB** Single Sideband. An AM signal that has a reduced carrier, with the power applied to a single sideband. Since the bandwidth of the information-carrying signal is reduced, a better signal-to-noise ratio is obtained at the receiver.

**SSCV/DR** Solid-State Cockpit Voice/Data Recorder

**SSCVR** Solid-State Cockpit Voice Recorder

**SSEC** Static Source Error Correction

**SSFDR** Solid-State Flight Data Recorder

**SSM** Sign Status Matrix: A set of bits in an ARINC label that tell the status of that label. The status can be normal, fail, test or no computed data (NCD).

**SSP** System Signal Processor

**SSR** Secondary Surveillance Radar. A radar-type system that requires a transponder to transmit a reply signal.

**SSSC** Single Sideband Suppressed Carrier. A SSSC signal is a band of audio intelligence frequencies that have been translated to a band of radio frequencies without distortion of the intelligence signal.

**SSU** Subsequent Signal Unit

**ST** Statistics

**sta** Station

**STAB** Stabilizer

**Standard Atmosphere** Represents the mean or average properties of the atmosphere. At sea level static pressure is 29.92 In Hg and temperature is +15°C.

**Standby Mode** A DME mode that applies power to the DMERT but the unit does not transmit.

**STAR** Standard Terminal Arrival Routes

**STARS** ( 1 ) Standard Terminal Automation Replacement System . ( 2 ) Status Tracking And Reporting System

**Static Ports** Flush-mounted openings in the skin of the aircraft fuselage used to sense static pressure.

**Static Pressure** Ambient atmospheric pressure or static pressure is the force per unit area exerted by the air on the surface of a body at rest relative to the air.

**Static RAM** RAM constructed of bistable transistor elements. Memory cells do not require refreshing. (See Dynamic RAM.)

**Static Source Error (SSEC)** A correction applied to static source pressure measurements to partly or completely correct for pressure errors that are caused by airflow changes. It is computed as a function of Mach and altitude based on measured errors for a particular static system.

**STB** Systems Test Bed

**STBY** Standby Instruments

**STC** ( 1 ) Sensitivity Time Control. A control circuit used in radar applications to control receiver gain with respect to time. ( 2 ) Supplemental Type Certificate

**STCM** Stabilizer Trim Control Module

**STD** ( 1 ) Standard . ( 2 ) System Technical Description

**STDBY** Standby Instruments

**STDMA** Synchronized Time Division Multiple Access

**STEPCLB** Step Climb

**STIM XX** An AHRS test mode, where “XX” can be OA (Sequence of all tests), 01 (Roll tests), 02 (Pitch tests), 03 (Heading test).

**STIU** Satellite Telecommunications Intermediate Unit

**STM** Serial Transition Module

**STOL** Short Takeoff and Landing

**STP** Standard Temperature and Pressure

**STR** System Trouble Report

**STS** Stable Time Subfield

**STX** Start of Text

**SU** Signal Unit

**SUA** Special Use Airspace

**SUL** Yaw Damper Actuator

**SUO** ( 1 ) Aileron/Elevator/Rudder Servo. ( 2 ) Servo Actuator

**Superheterodyne Receiver** A receiver in which the incoming RF signal is mixed to produce a lower intermediate frequency.

**Suppressor Pulse** A pulse used to disable L-band avionics during the transmitting period of another piece of L-band airborne equipment. It prevents the other avionics aboard the aircraft from being damaged or interfered with by the transmission and any noise associated with that transmission.

**SUPPS** Regional Supplementary Procedures

**SUT** ( 1 ) Autothrottle Servo . ( 2 ) Stabilizer Trim Servo . ( 3 ) System Under Test

**SV** Space Vehicle

**SVC** ( 1 ) Service . ( 2 ) Switched Virtual Circuit

**SVDU** Smart Video Distribution Unit

**SVO** Servo

**SVRR** Service Readiness Review

**SVS** Synthetic Vision System

**SVT** Servo Throttle

**SVU** Satellite Voice Unit

**S/W** Software

**SWAP** Severe Weather Avoidance Program

**SWIM** System Wide Information Management

**SWIR** Short Wavelength Infra-Red

**SWIT** Software Integration and Test

**SWRD** Software Requirements Document

**SWTRR** Software Test Readiness Review

**SXGA** Super Extended Graphics Array

**SYNC** Synchronizing

**SVA** Synthetic Vision Application

**sys** System

**SYS** System Identifier

**SYSCAT-B** System Category B (FAA Message Format)

**SYSCI** System Configuration Item

**TA** Traffic Advisory: TCAS information given to the pilot pertaining to the position of another aircraft in the immediate vicinity.

**TAD** ( 1 ) Terrain Awareness Display . ( 2 ) Transport Airplane Directorate

**TAC** ( 1 ) Test Access Control . ( 2 ) Thrust Asymmetry Compensation . ( 3 ) Triacetate Cellulose

**TACAN** The Tactical Air Navigation System that provides azimuth and distance information to an aircraft from a ground station (similar to VOR-DME, however, in the UHF Frequency band).

**Tach** Tachometer

**TACIU** Test Access Control Interface Unit

**TAF** Terminal Area Forecast (ICAO)

**TAI** Thermal Anti-Icing

**TAP** ( 1 ) Terminal Area Productivity. ( 2 ) Tailored Arrival Procedure

**TAR** Trials ATN Router

**Target** An aircraft within the surveillance range of TCAS.

**TAS** True Airspeed

**TAT** ( 1 ) Total Air Temperature. The air temperature including heat rise due to compressibility. ( 2 ) True Air Temperature

**TATCA** Terminal Air Traffic Control Automation

**TAU** TAU is the minimum time a flight crew needs to discern a collision threat and take evasive action. It represents the performance envelope (speed and path of aircraft) divided by the closure rate of any intruder aircraft (TCAS).

**TAWS** Terrain Awareness Warning System

**TBB** Transfer Bus Breaker

**TBD** To Be Determined

**TBO** Time Between Overhauls

**TBS** ( 1 ) To Be Specified . ( 2 ) To Be Supplied

**TC** ( 1 ) Transport Connection . ( 2 ) Type Certificate

**T/C** Top-of-Climb

**TCA** ( 1 ) Terminal Control Area.( 2 ) Throttle Control Assembly

**TCAS** Traffic Alert Collision Avoidance System: Transponder system that talks to other aircraft and determines their altitude, rate, vertical speed, distance and bearing.

**TCAS I** A baseline system that provides a warning (TA) to the flight crew of the presence of another aircraft (potential collision threat) within the surveillance area. No avoidance maneuver is suggested.

**TCAS II** A collision avoidance system providing traffic information (within approximately 30 nmi of the aircraft) to the flight crew, in addition to the resolution advisories (RA) (for vertical maneuvers only). A TCAS II-equipped aircraft will coordinate with TCAS II-equipped intruder aircraft to provide complementary maneuvers.

**TCC** Turbine Case Cooling

**TCDS** Type Certificate Data Sheet

**TCF** Terrain Clearance Floor

**TCM** Technical Coordination Meeting

**TCMS** Test Content Management System

**TCN** TACAN

**TCP** Transmission Control Protocol

**TCPIP** Transport Control Protocol/Internet Protocol

**TCQ** Throttle Control Quadrant

**TCS** Touch Control Steering

**TCU** ( 1 ) TACAN Control Unit . ( 2 ) Telephone Conversion Unit

**TCXO** Temperature Controlled Crystal Oscillator

**T/D** Top-of-Descent

**TD** Traffic Display: A feature of the TCAS that shows TCAS traffic.

**TDLS** Tower Data Link System

**TDM** In the Time Division Multiplex Systems a common carrier is shared to transmit multiple messages (to multiple receivers) by time sharing the carrier between the message sources.

**TDMA** Time Division Multiplex Access. When multiple transmitters are using a single carrier to transmit to a single receiver, the carrier is time shared between each of the transmitters, so the multiple messages are not garbled at the receiver.

**TDOP** Time Dilution Of Precision. A term used to describe the error introduced by variances in the calculated time.

**TDR** Transponder

**TDRS** Tactical Data Radio System

**TDS** Terminal Display System

**TDST** Tower Data Services Terminal

**TDWR** Terminal Doppler Weather Radar

**TDZ** Touch Down Zone

**TE** Test Equipment

**TEC** Thermo-Electric Cooler  
**TEI** Text Element Identifiers  
**TEMP** Temperature  
**Temperature Probe** A sensor protruding into the airstream to sense air temperature. Requires correction to get static air temperature.  
**TERM** Terminal  
**TERPS** ( 1 ) Terminal En Route Procedures .( 2 ) Terminal Instrument Procedures  
**TES** Trials End System (for ATN)  
**TF3** Task Force 3  
**TFC** Traffic  
**TFM** Traffic Flow Management  
**TFOV** Total Field Of View  
**TFR** Temporary Flight Restriction  
**TFT** Thin Film Transistor  
**TFTP** Trivial File Transfer Protocol  
**TFTS** Terrestrial Flight Telephone System  
**TG** ( 1 ) Timer-VDL Management Entity. ( 2 ) Transmission Gate  
**TG 3** GS's Maximum Time Between Transmissions  
**TG 4** Maximum Time Between GSIF's Timer  
**TGC** Turbulence Gain Control  
**TGS** Maximum Link Overlap Timer  
**TGT** Target: A weather radar annunciator that indicates weather ahead.  
**THDG** True Heading  
**THLD** Threshold  
**THR** Thrust  
**THRHOLD** Throttle Hold  
**Threat** A target that has satisfied the threat detection logic and thus requires a traffic or resolution advisory (TCAS).  
**THSA** Trimmable Horizontal Stabilizer Actuator  
**TIA** ( 1 ) Telecommunications Industry Association . ( 2 ) Type Inspection Authorization.  
**TIAS** True Indicated Airspeed  
**TIR** Type Inspection Report  
**TIS** Traffic Information Service  
**TIS-B** Traffic Information System-Broadcast  
**TK** Track Angle  
**TKE** Track Angle Error  
**T/L** Top-Level  
**TL** Terminal Location (ACARS/AFEPS)  
**TLA** Thrust Lever Angle  
**TLC** Target Language Compiler  
**TLM** Telemetry Word  
**TLS** Target Level of Safety  
**TM** Timer-Media Access Control  
**TMA** Traffic Management Advisor  
**TMC** Thrust Management Computer  
**TMCF** Thrust Management Computer Function  
**TMCS** Thrust Management Computer System  
**TMF** Thrust Management Function  
**TMS** ( 1 ) Thrust Management System. ( 2 ) Traffic Management System  
**TMU** Traffic Management Unit  
**TN** ( 1 ) True North . ( 2 ) Twisted Nematic  
**TO** Take Off  
**TOC** ( 1 ) Top of Climb . ( 2 ) Transfer of Communications  
**TOD** Top of Descent  
**TO EPR** Takeoff Engine Pressure Ratio  
**TO/FROM Indicator** Indicates whether the omnibearing selected is the course to or from the VOR ground station.  
**TOGA** Take Off, Go-Around. Also seen as TO/GA.  
**TO N1** Take Off Engine Fan Speed  
**TOR** Terms of Reference  
**TOT** Total  
**Touchdown** The point at which the predetermined glide path intercepts the runway.

**TOW** Time Of Week

**TPMU** Tire Pressure Monitor Unit

**TP** Test Point

**TP4** Transport Protocol Class 4

**TPDU** Transport Protocol Data Unit

**TPL** Terminal Permission List (ACA RS/AFE PS)

**TPM** Technical Performance Management

**TPR** Transponder

**TQA** Throttle Quadrant Assembly

**TR** Temporary Revision. A document, printed on yellow paper that temporarily amends a page or pages of a component maintenance manual.

**T/R** ( 1 ) Thrust Reverser . ( 2 ) Transceiver (see RT).( 3 ) Transmitter-Receiver

**TRA** ( 1 ) Temporary Reserved Airspace. ( 2 ) Thrust Reduction Altitude

**TRAC** Terminal Radar Approach Control

**Track** ( 1 ) The actual path, over the ground, traveled by an aircraft (navigation). ( 2 ) In this mode the DME transmits a reduced pulse pair rate after acquiring lock-on (DME). ( 3 ) Estimated position and velocity of a single aircraft based on correlated surveillance data reports (TCAS).

**TRACON** Terminal Radar Approach Control

**TRACS** Test and Repair Control System. An automated data retrieval system. TRACS functions include: 1) provide the location of any given unit at any time; 2) provide an efficient flow of work to and from test stations; 3) provide quick access to quality information generated by the actual testing process (performed by the technician); 4) provide statistical and historical data regarding throughput time for products, failure, yield rates, WIP, etc.

**Traffic Advisory** Information given to the pilot pertaining to the position of another aircraft in the immediate vicinity. The information contains no suggested maneuvers. (Traffic advisory airspace is 1200 feet above and below the aircraft and approximately 45 seconds distant with respect to closure speed of the aircraft.) [TCAS]

**Traffic Density** The number of transponder-equipped aircraft within R nautical miles (nmi) of own aircraft, divided by  $\frac{1}{R}$  (R nmi) 2. Transponder-equipped aircraft include Mode S and ATC RBS Mode A and Mode C, and excludes own aircraft. (TCAS)

**TRANS** Transition

**Transceiver** A receiver and transmitter combined in a single unit. Same as RT.

**Transponder** Avionics equipment that returns an identifying coded signal.

**TRB** Turbulence (TURB): A weather radar warning of approaching turbulence.

**TRD** Transit Routing Domain

**TRK** Track: The course the aircraft is traveling along the ground with respect to true North.

**TROOP** Tracking and Resolution Of Obsolete Parts

**TRP** Mode S Transponder

**TRR** ( 1 ) Test Readiness Review . ( 2 ) Test Rejection and Repair

**TRSB** Time Reference Scanning Beam. The international standard for MLS installations.

**TRU** ( 1 ) Transformer Rectifier Unit . ( 2 ) True

**True Airspeed** The true velocity of the aircraft through the surrounding air mass.

**True Altitude** The exact distance above mean sea level (corrected for temperature).

**True Bearing** The bearing of a ground station with respect to true north.

**True North** The direction of the north pole from the observer.

**TS** ( 1 ) Time Source . ( 2 ) Transport Service. ( 3 ) Traffic Synchronization

**TSA** ( 1 ) Tail Strike Assembly. ( 2 ) Technical Service Agreement

**TSAP** Transport Service Access Point

**TSC** Term Service Commitment

**TSDIU** Transport Service Data Unit

**TSE** Total System Error

**TSIP** Trimble Standard Interface Protocol

**TSM** Autothrottle Servo Mount (without Clutch)

**TSP** ( 1 ) Transmitted Signal Power . ( 2 ) Twisted Shielded Pair

**TSO** Technical Standard Order. Every unit built with a TSO name plate must meet TSO requirements. TSO operating temperature extremes are not the same as the manufacturing burn-in limits.

**TSS** Technology Support and Services

**TSTM** Time Source Transition Module

**TT** ( 1 ) Test Tools . ( 2 ) Total Temperature

**TT2** Total Inlet Temperature (Engine)

**TTFF** Time To First Fix

**TTG** Time To Go: The time from present position to the next navigation fix based on current aircraft ground speed.

**TTL** Transistor-Transistor Logic  
**TTR** TCAS II Receiver/Transmitter  
**TTS** Time To Station, an indication that displays the amount of time for an aircraft to reach a selected DME ground station while traveling at a constant speed.  
**TTY** Tele typewriter  
**TU** Smart Tapping Unit  
**TUA** Test Unit Adapters  
**TURB** Turbulence  
**Turbulence** The U.S. National Weather Service defines light turbulence as areas where wind velocity shifts are 0 to 19 feet per second (0 to 5.79 meters per second) and moderate turbulence as wind velocity shifts of 19 to 35 feet per second (5.79 to 10.67 meters per second).  
**TVBC** Turbine Vane and Blade Cooling  
**TVC** Turbine Vane Cooling  
**TVE** Total Vertical Error  
**TVEC** Test Vector  
**TWDL** ( 1 ) Terminal Weather Data Link. ( 2 ) Two Way Data Link  
**TWDR** Terminal Doppler Weather Radar  
**TWIP** Terminal Weather Information for Pilots  
**TWND** Tailwind  
**TWP** Technical Work Program  
**TWR** Turbulence Weather Radar  
**TWT** Traveling Wave Tube  
**TX** Transmit (see XMIT): An annunciation that may be displayed on the Communications Radio Controller (CTL, CDU, RTU) while a radio signal is being transmitted.  
**UA** ( 1 ) Unnumbered Acknowledgment . ( 2 ) User Application  
**UART** Universal Asynchronous Receiver/Transmitter  
**UASC** Universal Avionics Systems Corp.  
**UAT** Universal Access Transceiver  
**UAV** Unmanned Air Vehicle  
**UB** Utility Bus  
**UBI** Uplink Block Identifier  
**UCI** User Computer Interface  
**UCS** Uniform Chromaticity Scale  
**UD** User Data. The N-User data may also be transferred between peer network members (OSI Model) as required.  
**UDP** User Datagram Protocol  
**UFDR** Universal Flight Data Recorder  
**UHF** Ultra-High Frequency. The portion of the radio spectrum from 300 MHz to 3 GHz.  
**UI** Unnumbered Information  
**UIR** Upper flight Information Region  
**UL** Uplink  
**ULB** Underwater Locator Beacon  
**ULD** Unit Load Device  
**UMI** User-Modifiable Information  
**UML** Unified Modeling Language  
**UMS** User-Modifiable Software  
**UMSDT** User-Modifiable Software Development Tool  
**UMT** Universal Mount  
**Unpaired Channel** A DME channel without a corresponding VOR or ILS frequency.  
**Uplink** The radio transmission path upward from the earth to the aircraft.  
**UP** Universal Platform  
**UPR** User Preferred Route  
**UPRM** Universal Platform Resource Management  
**UPSMS** UPS Management System  
**UPS** Uninterruptible Power Supply  
**USAF** United States Air Force  
**USB** Upper Sideband is the information-carrying band and is the frequency produced by adding the carrier frequency and the modulating frequency.  
**USTB** Unstabilized  
**UTC** Universal Time Coordinated (French)  
**UTE** Universal Trigger Engine

**UTP** Unshielded Twisted Pair  
**UUT** Unit Under Test  
**UV** Upper Sideband Voice  
**UW** Unique Word  
**V ( 1 )** Velocity . ( 2 ) Volt  
**V ( 1 )** Critical engine failure velocity. A pilot selectable speed on the PFD.  
**V ( R )** Takeoff rotation speed. A pilot selectable speed on the PFD.  
**V ( 2 )** Takeoff safety speed. A pilot selectable speed on the PFD.  
**V ( T )** A general target speed for flight. A pilot selectable speed on the PFD.  
**VA** Volt-Amperes  
**VAC** Volts Alternating Current  
**VAP ( 1 )** Value Added Processor . ( 2 ) Visual Aids Panel  
**VAPS ( 1 )** Virtual Applications Prototyping System . ( 2 ) Virtual Avionics Prototyping System  
**VAR ( 1 )** Variation . ( 2 ) Visual-Aural Radio Range. ( 3 ) Volt-Amps Reactive  
**VASI** Visual Approach Slope Indicator  
**VAU** Voltage Averaging Unit  
**V BAR PFD** Flight Director Symbology for which the command bars move vertically for pitch command and rotate for roll command.  
**VBV** Variable Bypass Valve  
**VC ( 1 )** Design Cruising Speed . ( 2 ) Virtual Circuit  
**VCB** Virtual Circuit Bridge  
**VCD ( 1 )** Variable Capacitance Diode . ( 2 ) Voltage Controlled Device  
**VCMAX** Active Maximum Control Speed  
**VCMIN** Active Minimum Control Speed  
**VCO** Variable Controlled Oscillator  
**VCU** VDL Control Unit  
**VD ( 1 )** Design Diving Speed ( 2 ) Heading to a DME Distance  
**VDC** Volts Direct Current  
**VDL** VHF Data Link  
**VDL Mx** VHF Data Link Mode X  
**VDR** VHF Digital Radio  
**VER** Version  
**VES** Video Entertainment System  
**Vertical Speed** The rate of change of pressure altitude, usually calibrated in hundreds of feet per minute.  
**VF** Design Flap Speed  
**VFE** Flaps Extended Placard Speed  
**VFO** Variable Frequency Oscillator  
**VFOP** Visual Flight Rules Operations Panel  
**VFR** Visual Flight Rules  
**VFXR ( R )** Flap Retraction Speed  
**VFXR ( X )** Flap Extension Speed  
**VG/DG** Vertical Gyro/Directional Gyro  
**VG or VGND** Ground Velocity  
**VGA** Video Graphics Adapter  
**VH** Maximum Level-flight Speed with Continuous Power  
**VHDL** Very High-speed integrated circuit Hardware Description Languages  
**VHF** Very High Frequency. The portion of the radio spectrum from 30 to 300 MHz.  
**VHS** Very High Speed  
**VHSIC-2** Very High Speed Integrated Circuits-Phase 2  
**VI** Heading to a course intercept  
**VIR** VOR/ILS Receiver  
**Vis** Lowest Selectable Airspeed  
**VIS** Video Intelligence System  
**VIGV** Variable Integral Guide Vane  
**VISTA** Virtual Integrated Software Testbed for Avionics  
**VIU** Video Interface Unit  
**V/L** VOR/Localizer  
**VLE** Landing Gear Extended Placard Airspeed  
**VLF** Very Low Frequency

**VLO** Maximum Landing Gear of Operating Speed  
**VLOF** Lift-off Speed  
**VLSI** Very Large Scale Integration  
**VLV** Valve  
**VM** Heading to a manual termination  
**V/M** Voltmeter  
**VMAX** Basic Clean Aircraft Maximum CAS  
**VMC** ( 1 ) Visual Meteorological Conditions. ( 2 ) Minimum Control Speed with Critical Engine Out  
**VME** ( 1 ) Versa Module Eurocard Bus. ( 2 ) VHF Management Entity, VME bus  
**VMECC** Versa Module Eurocard Card Cage  
**VMIN** Basic Clean Aircraft Minimum CAS  
**VM (LO)** Minimum Maneuver Speed  
**VMC** Visual Meteorological Conditions  
**Vmo** The maximum airspeed at which an aircraft is certified to operate. This can be a fixed number or a function of configuration (gear, flaps, etc.), or altitude, or both.  
**VMO/MMO** Velocity, Maximum Operating/Mach, Maximum Operation  
**VMON** VNMS Health Monitoring  
**VMOS** Virtual Machine Operating System  
**V/NAV** Vertical Navigation: (Also VNV). A system by which the crew can define a vertical path in space and the system can output guidance to maintain that path.  
**VNE** Never-Exceed Speed  
**VNO** Maximum Structural Cruising Speed  
**VNR** VHF Navigation Receiver  
**VNV** Vertical Navigation  
**VOCRAD** Voice Radio  
**VOD** Video On Demand  
**VoIP** Voice Over Internet Protocol  
**Voispond** A CALSE L function that would automatically identify an aircraft by a voice recording. Voispond is not yet implemented.  
**VOM** Volt-Ohm-Millimeter  
**VOR** VHF Omnidirectional Radio Range. A system that provides bearing information to an aircraft.  
**VOR/DME** A system in which a VOR and DME station are co-located.  
**VOR/MB** VOR/Marker Beacon  
**VORTAC** A system in which a VOR and a TACAN station are co-located.  
**VOS** Velocity Of Sound  
**VOX** Voice Transmission  
**VPATH** Vertical Path  
**VPN** ( 1 ) Vendor Part Number . ( 2 ) Virtual Private Networks  
**VR** ( 1 ) Takeoff Rotation Velocity. ( 2 ) Heading to a radial  
**VRAM** Video Random Access Memory  
**VREF** Reference Velocity  
**VRG** VDL Reference Guide  
**VRU** Video Reproducer Unit  
**V/S** Vertical Speed  
**Vs** Stall Velocity  
**VSpeeds** Automatic look-up and display of takeoff, approach, landing and missed-approach speeds.  
**Vsw** Stall Warn Velocity  
**VSAT** Very Small Aperture Terminal  
**VSCF** Variable Speed Constant Frequency  
**VSCS** ( 1 ) Vertical Stabilizer Control System used on NOTAR helicopter . ( 2 ) Voice Switching and Control System  
**VSD** ( 1 ) VDL Specific DTE Address . ( 2 ) Vertical Situation Display  
**VSI** ( 1 ) Vertical Speed Indicator. ( 2 ) Stalling Speed in a Specified Flight Configuration  
**VSL Advisory** Vertical Speed Limit Advisory may be preventive or corrective (TCAS)  
**VSM** Vertical Separation Minimum  
**VSO** Stalling Speed in the Landing Configuration  
**VSTOL** Vertical or Short Takeoff and Landing  
**VSV** Variable Station Vane  
**VSWR** Voltage-Standing Wave Ratio. The ratio of the amplitude of the voltage (or electric field) at a voltage maximum to that of an adjacent voltage minimum. VSWR is a measurement of the mismatch between the load and the transmission line.  
**VTK** Vertical Track Distance

**VTO** Volumetric Top-Off  
**VTOL** Vertical Takeoff and Landing  
**VTR** Variable Takeoff Rating  
**V/TRK** Vertical Track  
**VU** Utility Speed  
**VX** Speed for Best Angle of Climb  
**VY** Speed for Best Rate of Climb  
**W** ( 1 ) Watt . ( 2 ) West  
**WAAS** Wide Area Augmentation System (Method of Differential GPS)  
**WAD** Wide Area Differential  
**WADGNSS** Wide Area Differential Global Navigation Satellite System  
**WAFS** World Area Forecast System  
**WAI** Wing Anti-Ice  
**WAN** Wide Area Network  
**WARC-92** World Administrative Radio Conference (1992)  
**WARC-MOB** World Administrative Radio Conference for the Mobile Service  
**WAT** Weight and Temperature  
**WATRS** West Atlantic Route Structure  
**Waypoint** A position along a route of flight. Navigation aid, airport, or geographic point a pilot uses to navigate the aircraft.  
**WBC** Weight and Balance Computer  
**WBS** Work Breakdown Structure  
**WCP** WXR Control Panels  
**WD** Wind Direction  
**WES** Warning Electronic System  
**WEU** Warning Electronic Unit  
**WFA** WXR Flat Plate Antenna  
**WGS** World Geodetic System  
**WGS-72** World Geodetic Survey of 1972  
**WGS-84** World Geodetic System 1984  
**Whisper Shout** A sequence of ATRCBS interrogations and suppressions of varying power levels transmitted by TCAS equipment to reduce severity of synchronous interference and multipath problems.  
**WING CHORD** An imaginary line joining the leading and trailing edges of the wing.  
**WINDMG** Wind Magnitude  
**WINDR** Wind Direction  
**WIP** Work In Progress  
**WLAN** Wireless Local Area Network  
**WLD** Welded Pipe and Tube  
**WLM** Wireless LAN Manager  
**WMA** WXR Antenna Pedestal and WXR Waveguide Adapter  
**WMI** WXR Indicator Mount  
**WMO** World Meteorological Organization  
**W/MOD** With Modification of Vertical Profile  
**WMS** Wide-area Master Station  
**WMSC** Weather Message Switching Center  
**WMSCR** Weather Message Switching Center Replacement  
**WMT** WXR Mount  
**WN** Week Number  
**WORD** Grouping of bits. Size of group varies from microprocessor to microprocessor.  
**WOW** Weight On Wheels  
**WP** Working Paper  
**WPT** Waypoint. A defined geographic point used as a reference for navigation.  
**WPR** Waypoint Position Report  
**WRAU** Weather Radar Attention Unit  
**WRS** Wide-area Reference Station  
**WRT** WXR Receiver/Transmitter  
**WSDDM** Weather Support for Deicing Decision Making  
**W/STEP** With Step Change in Altitude  
**WT** Weight  
**WX** Weather

**WXI** WXR Indicator  
**WXP** Weather Radar Panel  
**WXR** Weather Radar System  
**WWW** World Wide Web  
**WYPT** Waypoint Altitude  
**XA** ARINC  
**X-BAND** The frequency range between 8000 and 12500 MHz  
**XB** International Air Transport Association (IATA)  
**X-Channel** A DME channel. There are 126 X-channels for DME operation. For the first 63 channels, the ground-to-air frequency is 63 MHz below the air-to-ground frequency. For the second 63-X Channels the ground-to-air frequency is 63 MHz above the air-to-ground frequency.  
**XCVR** Transceiver  
**XFR** Transfer  
**XID** Exchange Identification  
**XLS** Cross-side  
**XLTR** Translator  
**XM** External Master  
**XMIT** Transmit  
**XML** eXtended Markup Language  
**XMTR/RCVR** Transmitter/Receiver  
**XPDR** ATC Transponder (also XPDR, X PNDR, TPR)  
**XPDR** Transponder  
**XPTR** Cross Pointer: The flight director command bars. Pitch command is shown with vertical motion of the horizontal bar and roll command is shown with lateral motion on the vertical bar.  
**XS** SITA  
**XSIDE** Cross-side  
**XTI** X/Open Transport Interface  
**XTK** Crosstrack (crosstrack error)  
**XTP** Express Transfer Protocol  
**Yagi Antenna** An antenna with its maximum radiation parallel to the long axis of its array, consisting of a driven dipole, a parasitic dipole reflector, and one parasitic dipole director or more.  
**YAW** Refers to movement about the vertical axis of the aircraft  
**YSAS** Yaw Stability Augmentation System  
**YD** Yaw Damper  
**Z ( 1 )** Refer to reflectivity factor . ( 2 ) Zulu (GM Time)  
**ZDE** Zone Distribution Equipment  
**ZFW** Zero Fuel Weight  
**Z-Marker** A marker beacon, sometimes referred to as a station locator, that provides positive identification to the pilot when the aircraft is passing directly over a low-frequency navigation aid.  
**Z** Zulu Time