

P600 AEW&C



An aerial photograph of a coastline at sunset. The sky is a mix of blue and orange, with a thin orange line separating the two colors. The ocean is visible on the right, and a portion of an airplane's wing is seen in the upper right corner. The text 'PROTECTING WHAT MATTERS MOST' is written in bold, black, sans-serif font, oriented vertically across the center of the image.

PROTECTING WHAT MATTERS MOST

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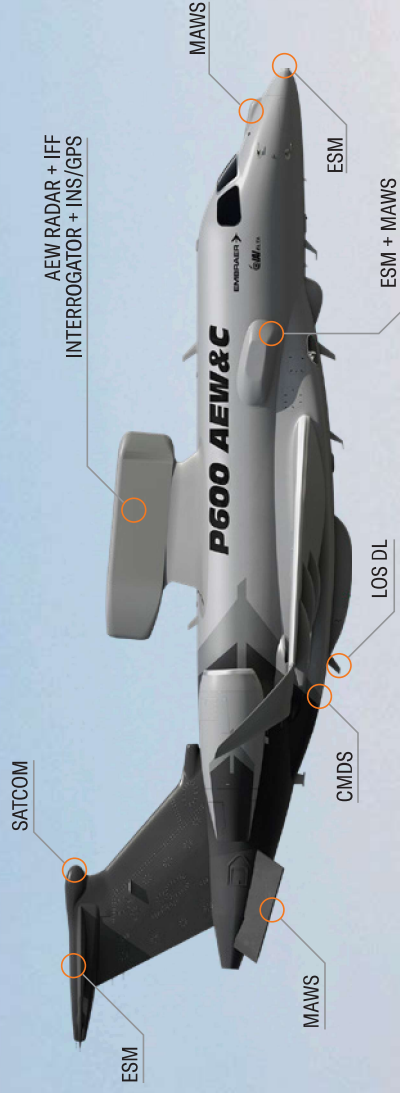




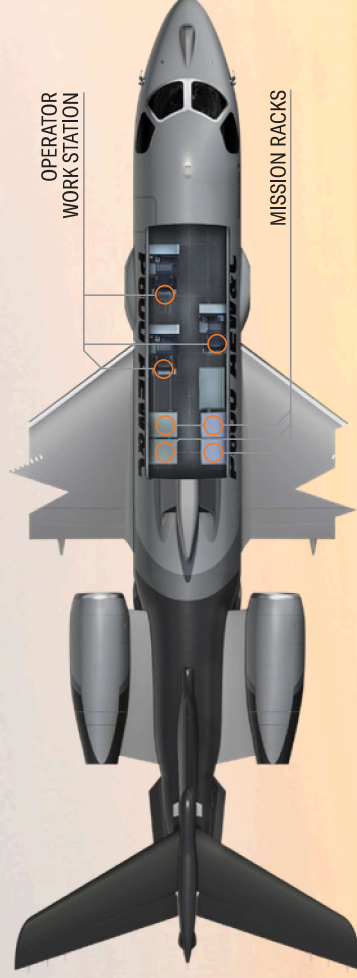
THE P600 AEW&C SOLUTION

THE P600 AEW&C is equipped with a dorsal mounted, low weight and high efficient latest-generation RADAR using digital GaN AESA technology integrated with an advanced AEW&C Mission System for multiple defense and security missions.

With superior aircraft performance and an advanced mission system, the P600 AEW&C provides accurate and reliable surveillance in the aerial and maritime environments at a fraction of the cost of modern AEW&C systems. A complete communication suite ensures interoperability and joint operations with existing assets.



ACCURATE AND RELIABLE SURVEILLANCE



ESM	Electronic Support Measures
MAWS	Missile Approach Warning System
CMDS	Counter-Measures Dispenser System
LOS DL	Line of Sight Data link
IFF	Identification Friend or Foe
INS/GPS	Inertial Navigation System/Global Positioning System
SATCOM	Satellite Communication

MISSIONS AND CAPABILITIES

THE P600 AEW&C IS A STRATEGIC ASSET AND FORCE MULTIPLIER. It is equipped with a unique and comprehensive set of systems and capabilities specifically designed to maintain the sovereign integrity of a nation. It provides deterrence against internal and external threats, reinforced by the effective coordination and rapid response of air, maritime and ground-based assets

ADVANCED SOLUTION FOR MODERN OPERATIONAL SCENARIOS

- / HOMELAND SECURITY / EARLY WARNING
- / LAW ENFORCEMENT / COMMAND AND CONTROL
- / MARITIME SURVEILLANCE / AIR DEFENSE
- / AIR SURVEILLANCE / ELECTRONIC INTELLIGENCE

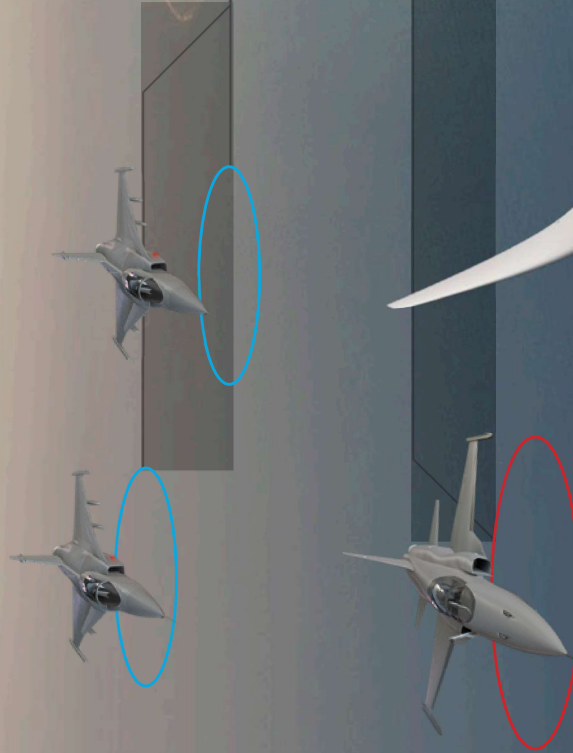


HOMELAND SECURITY & LAW ENFORCEMENT

FIGHTING INTERNATIONAL CRIME

The P600 AEW&C participates in Counter-Drug, Counter-Insurgency, Counter-Terrorism and Air Interdiction operations by denying smugglers access to safe, direct and economical routes. The P600 AEW&C also provides national and international agencies with real-time information required to interdict, apprehend and degrade the capabilities of criminal organizations.

AIR SURVEILLANCE



HIGH AND LOW FAST
MANEUVERING TARGETS

EARLY WARNING

Whether flying along a nation's land and maritime borders or around a designated area of interest within sovereign airspace or abroad, the P600 AEW&C detects, identifies, tracks and monitors all air activity at long ranges, providing an accurate and timely Air Situational Picture for decision-makers.

AIR DEFENSE



TRUE SOVEREIGNTY

The P600 AEW&C is poised to provide a fast response to national air defence challenges, by generating persistent situational awareness in the air domain. Whether looking down into valleys or overcoming blind spots over mountain ranges, the P600 AEW&C provides extended early warning especially of low-flying incoming threats, where ground based air defense radars are limited by line of sight. The P600 AEW&C is capable of controlling friendly fighters for fast, efficient and safe interception, while disseminating the Air Situational Picture (ASP) to its own fighters and Command & Control centres via Datalinks.

AEW&C SYSTEMS

P600AEW&C
SENSORS CAPABILITIES



LONG RANGE
RADAR COVERAGE
AT LOW ALTITUDES



THE NEW 4th GENERATION AESA AEW RADAR

THE P600 AEW&C RADAR & IFF SYSTEM is a state-of-the-art S-Band digital GaN AESA RADAR, designed for long range detection, identification and tracking of airborne and sea surface targets. The RADAR provides 240° coverage with two back-to-back antenna arrays in a dorsal mount, while the integrated IFF systems interrogate in both civil and military modes, and support ADS-B replies using a 360° antenna. The high performance RADAR & IFF system operates with high efficiency, low false alarm rate and high target capacity within the surveillance volume throughout the different selectable search regimes.

AUTOMATIC IDENTIFICATION SYSTEM (AIS)

THE MARITIME SITUATIONAL PICTURE is generated by integrating the Radar maritime detections and the Automatic Identification System (AIS) information.

PRAETOR 600 PLATFORM



**THE WORLD'S MOST DISRUPTIVE
AND TECHNOLOGICALLY ADVANCED
SUPER-MIDSIZE BUSINESS JET.**

- / HIGH ALTITUDE FLYING, ABOVE HIGH-DENSITY CIVILIAN AIR TRAFFIC
- / EXTENDED ENDURANCE AND MISSION TIME
- / HIGH SPEED & CLIMB RATE
- / QUIET 'WHISPER SILENT' WORKING ENVIRONMENT
- / LOW CABIN ALTITUDE LEADING TO REDUCED OPERATOR AND CREW FATIGUE
- / FULL FLY-BY-WIRE AND ACTIVE TURBULENCE CONTROL LEADING TO IMPROVED & CONSISTENT SENSOR PERFORMANCE
- / SHORT RUNWAY OPERATIONS
- / HIGH RELIABILITY AND AVAILABILITY

NETWORK CENTRIC OPERATION

INTEROPERABILITY IS A FORCE MULTIPLIER. Network Centric Operation enables interoperability between all types of assets. Interoperability in the P600 AEW&C is achieved through Command & Control, voice communication and datalink capabilities. This ensures accurate information can be rapidly exchanged through secure means between all

participants and decision-makers in the operational environment. The P600 AEW&C is an advanced Command & Control unit receiving and fusing the Air Situational Picture (ASP) from collaborating units as well as transmitting and disseminating its own ASP for efficient asset coordination and better decision-making at multiple networks simultaneously.

DATA-LINK CONFIGURATIONS SUCCESSFULLY IMPLEMENTED FOR DIFFERENT CUSTOMERS

TACTICAL DATA LINK CAPABILITIES INCLUDE

- Air Situational Picture
- Command and Control over the network

WIDE BAND DATA COMMUNICATION

- SATCOM for Beyond LOS (BLOS) operation
- LOS Data link

VOICE & DATA COMMUNICATION

- HF
- V/UHF
- Internal Communication System (ICS) among operators and flight crew

INTEROPERABILITY

- Configured for national and international joint and coalition operations

MISSION SYSTEM

SYSTEM SEGMENTS

The Mission System is the command and control platform responsible for providing situational awareness, battlespace management, and intelligence in all mission phases.

GROUND SEGMENT

MISSION SUPPORT SYSTEM (MSS)

Planning, debriefing and training in fixed or deployable centers.

AIRBORNE SEGMENT

MISSION MANAGEMENT SYSTEM (MMS)

The Mission & Combat System automatically generates and maintains the Recognized Air and Surface Situational Picture from the inputs of all onboard sensors, operator inputs and external data sources.



ANYTIME, ANYWHERE

SHORT TAKEOFF & LANDING

From sea level to high-altitude airfields and within a wide-ranging temperature envelope, the P600 AEW&C can sustain mission effectiveness all year round in several countries across the world. The robust platform is flexible and suitable for operations from multiple military bases and civil airfields.

LOW OPERATIONAL COST

The P600 AEW&C offers the lowest Life Cycle Cost in its category. Quick and easy maintenance regimes coupled with on-board maintenance systems and ergonomic access to components, make the Praetor 600 the first choice of many commercial operators. Different support packages can be tailored to the needs of individual customers to deliver maximum availability in line with the operational environment.



TIME TO REACH
40,000 FT

~ 40 MIN.

TAXI AND TAKEOFF

MIN TAKEOFF DISTANCE (MTOW, SL, ISA) 6,200 FT

JOINT PARTNERSHIP

EMBRAER / TAILOR-MADE INTEGRATED SOLUTIONS. THROUGHOUT THE WORLD.

EMBRAER DEFENSE & SECURITY is the leading aerospace and defense industry in Latin America. In addition to military aircraft such as the A-29 Super Tucano light attack and the C-390 MILLENNIUM military airlift it provides a full range of integrated solutions that includes technologies and systems for several applications. With a growing presence on the global market, Embraer Defense & Security products and integrated solutions are present in more than 60 countries.

- C-390 MILLENNIUM MILITARY TRANSPORT
- SUPER TUCANO CLOSE AIR SUPPORT
- SPECIAL TRANSPORTATION
- SPECIAL MISSION AIR PLATFORMS
- BORDER CONTROL
- CYBER SECURITY
- COMMAND AND CONTROL CENTER

- NAVAL SYSTEMS
- STRATEGICAL COMMUNICATIONS
- SMART CONNECTIONS
- TACTICAL COMMUNICATIONS
- ASSET MANAGEMENT AND LOGISTICS
- SENSORS
- AIR TRAFFIC MANAGEMENT AND CONTROL
- SATELLITES



ATECH

AN EMBRAER GROUP COMPANY.
SOLUTIONS FOR CRITICAL SYSTEMS.

ATECH is the Embraer Group company specialized in the development of solutions for critical systems and technologies to support decision-making. Being part of different strategic defense and security projects, its capabilities are focused on Command & Control, Simulation, Air Traffic Management, Instrumentation & Control and Intelligence, with experience in providing integration and situational awareness for ground and onboard systems.

VALUE PROPOSITION

THE P600 AEW&C COMBINES THE BEST IN AIRCRAFT TECHNOLOGY, best-in-class operational costs, with state-of-the-art sensor technology to create a modular and adaptable solution to meet individual customer requirements. From those customers with previous experience in AEW&C operations that want to transit to advanced cutting-edge technologies, to those who face new and emerging threats and challenges, the P600 AEW&C offers a complete and affordable solution.

THE NEXT GENERATION SUPER MID-SIZE AEW AIRCRAFT

The P600 AEW&C was designed to optimize technology and automation to reduce crew size, whilst providing excellent performance in all functions and capabilities. The robust design of the overall system provides higher operational flexibility and availability. Whether in peace or conflict, the P600 AEW&C is always available, responsive and able to identify threats to maintain sovereign integrity and the safety of the country.



| P600 AEW&C: PROTECTING WHAT



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CHALLENGE.
CREATE.
OUTPERFORM.