



ANCP AVIONICS NETWORK COMPUTING PLATFORM

The introduction of 'IT enabled aircraft' – sometimes also called 'e-enabled' or 'digital aircraft' – enables secure IP communications to and from the aircraft. Technologies that use the internet protocol (IP) in the air transport industry are leading to dramatic transformation to aircraft operations, whether on the ground or in-flight. Selex ES is active part of this transformation, being the supplier of a family of interoperable ground / naval / aerial Communications Networking Nodes.

Part of this family is the Avionics Network Computing (ANC) Platform, a secure and robust avionic data communication manager able to interface different radio systems, and guaranteeing a communications backbone for on-ground and in-flight critical operations.

The ANC Platform is an integrated avionic equipment, based on Integrated Modular Avionics (IMA) concept, aimed at providing safe and secure communications services and data terminal management functions for manned and unmanned platforms. Based on Internet Protocol (IP) technology, it is also able to provide gateway functionalities for legacy communications systems and audio/video support.

AVIONICS NETWORK COMPUTING PLATFORM MAIN CAPABILITIES:

- Modular HW architecture based on units providing Processing, Data Storage and I/O functions
- On-board Server
 - Network, File and Application Server
 - Data Loading, Data Distribution
- Networking
 - Native support to IPv4/IPv6 data traffic (wideband core capability)
 - IP Routing, Ethernet Switching, VLANs
- Security
 - IP encryption for information confidentiality protection
 - Domains Segregation (Secure and Not Secure)
- Safety / Integrity
 - Support to redundant configurations for high availability applications
 - Capability to guarantee differentiated quality of service on a common set of connectivity resources
 - DO-178/DO-254 HW/SW developments, for safe applications support

