

Teledyne Controls

Solutions for a Connected Aircraft

Teledyne Controls is a leading provider of end-to-end solutions designed to help operators increase flight safety and operational efficiency through more efficient aircraft data and information management. Always at the forefront of avionics innovation, Teledyne Controls has developed a new line of *Connected Aircraft* solutions.

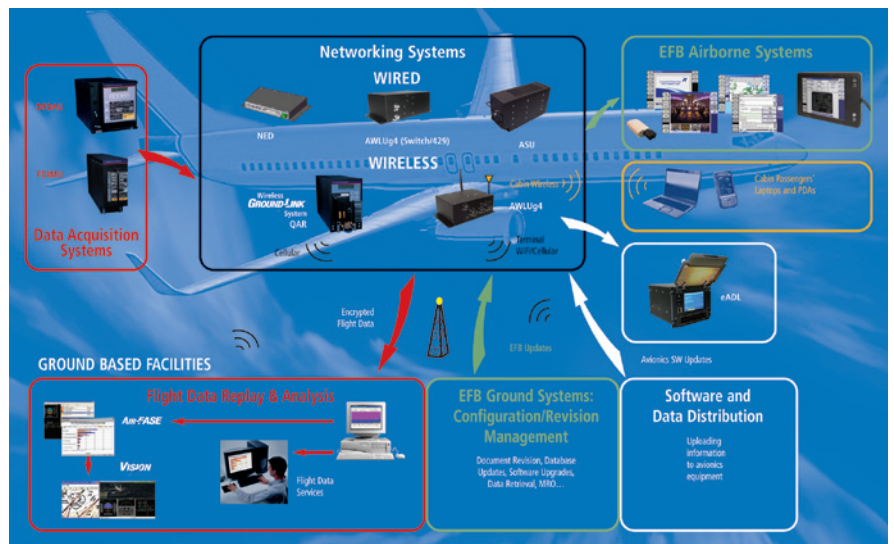
The 'Connected Aircraft,' the foundation for better data exchange and information management

With the increasing number of TCP/IP based systems installed on aircraft today and their need to interoperate with traditional avionics equipment, along with the growing use of wireless communications, both in the aircraft cabin and between the aircraft and the ground, operators' data management requirements are evolving. Teledyne's *Connected Aircraft* consists of bridging traditional ARINC 429 avionics devices with Ethernet-based networked and wireless communications systems to facilitate data sharing and exchange within an airline's operation.

By streamlining information management, Teledyne's *Connected Aircraft* supports a wide range of operational areas, such as flight data collection and analysis for Flight Data Monitoring (FDM) programs, software part distribution across an airline's fleet, Electronic Flight Bags (EFB) content updating, etc. This new combined architecture will provide a growing number of application possibilities, as requirements continue to evolve further toward the Ethernet-based environment.

Wireless Communications at the heart of the 'Connected Aircraft'

A critical part of the *Connected Aircraft* is played by Teledyne's wireless data transfer systems. Using cellular and/or 802.11 WiFi technologies, they provide



a secure and reliable link to connect the aircraft to the airline or MRO back office. Teledyne's wireless solutions include the Wireless GroundLink® system (WGL) and the fourth-generation Aircraft Wireless LAN Unit (AWLUg4). Both have been flying in commercial service for years and have given Teledyne a wealth of experience in the wireless transmission of data for the airline industry.

Easier software distribution across the fleet

Another key product of the *Connected Aircraft* is Teledyne's enhanced Airborne Data Loader (eADL), which greatly simplifies the distribution, onboard storage and management of loadable software applications and databases across an airline's operation. The eADL helps reduce data loading time, streamline processes and cut costs by eliminating the need to reproduce, distribute and load countless floppy disks. Multiple floppy disk contents can easily be uploaded to the eADL from a single USB key, or wirelessly from a ground system when the eADL is used with a wireless communication device. The eADL also provides internal memory data storage for onboard retention of software and databases.

Smoother communications between airborne and ground workforces

Teledyne's Airborne Server Unit (ASU) provides a reliable, flexible, and high-performance framework for airborne information systems, offering a gateway through which flight crew and ground personnel can access essential onboard information. The ASU can host a wide range of aviation-specific applications, including cockpit, cabin, maintenance, graphical weather and e-mail, and can display this information on various terminals, such as EFBs and Pilot or Maintenance Access Terminals. The server connects to existing onboard avionics and legacy ground systems through a wide range of standard ARINC and LAN interfaces. It also communicates with ground operations through standard wireless links such as VHF, ACARS, SATCOM or Teledyne's wireless communication systems.

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