

## Airborne Server Unit (ASU)



### GENERAL SPECIFICATIONS

- Size: 4 MCU
- Weight: <22 lbs / 10 kg
- Power: 28 VDC / 115 VAC, 400 Hz WF
- Memory: 1GB RAM
- 80 GB primary mass storage, 512 MB solid state secondary mass storage
- ARINC 429 input channels: 15
- ARINC 429 output channels: 8
- ARINC 573/717 input channel: 1
- Discrete Input: 16
- Discrete Output: 8
- TIA-232 Channels: 2
- USB: 1 USB 2.0 interface
- Ethernet 10/100BaseT: 16
- Environmental: RTCA/DO160
- MTBF: >15,000 hours

Teledyne Controls' 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. This general purpose, Windows based, airborne server offers a highly flexible host for non-system critical applications, and allows aircraft crews to perform their jobs more simply, quickly, and efficiently.

The Airborne Server Unit can host a wide range of aviation-specific software applications including cockpit, cabin, maintenance, graphical weather, electronic documentation and e-mail, and display this information on various terminals, such as EFBs, Pilot Access Terminal (PAT), Maintenance Access Terminal (MAT), or Cabin Access Terminal (CAT).

Although its architecture is similar to networked servers on the ground, the Teledyne ASU is specifically engineered and certified for installation on commercial aircraft. The server connects to existing onboard avionics and legacy ground systems through a wide range of standard ARINC and LAN interfaces (including ARINC 429, ARINC 763, ARINC 573/717, RS422/232/485, USB and Ethernet). The ASU interfaces to onboard systems such as flight management, aircraft condition monitoring, and flight data recording. The server also communicates with ground operations through standard aircraft wireless links such as HF, VHF, ACARS, NATS, TFTS, SATCOM, and Gatelink.

By bridging the information gap between airborne and ground workforces, the ASU helps operations to achieve smoother and easier communications, which results in a more efficient and profitable business.

### KEY FUNCTIONS

- File Storage: Central repository for digital manuals, forms, documents and other databases
- High Speed Networking Hub: Managed Ethernet Switch with VLAN and Fiber
- Firewall: Certified separation between aircraft avionics and other server functions