

DESCRIPTION

The Network Server Unit (NSU) is a high performance, highly reliable server platform designed for use in the aircraft environment. With an I/O interface design based on multiple processors, it has the highest data throughput of any airborne server on the market. It has been designed to meet the ARINC 763, DO-160D environmental and EMI requirements for use in airborne applications, while using Commercial Off The Shelf (COTS) subsystems. The NSU provides an easy upgrade path to latest generation computing technology without the costly redesigns associated with custom products.

KEY FEATURES

- ARINC 763 compliant
- Internal Ethernet Switch
- Modular design (5 cards)
- Flexible to meet unique airline requirements
- Meets ARINC 600 6MCU size, power and cooling requirements for airborne equipment
- Meets RTCA DO-160D environmental and EMI requirements
- 115VAC 400Hz or 28VDC power
- Pentium and Compact PCI processing power
- Windows NT Server Applications
- Interfaces to:
 - Legacy and new generation aircraft communications buses
 - Airport computer networks via Wireless LAN
 - Maintenance Access Terminals



FUNCTIONS

<u>Maintenance Applications</u>	<u>Cabin Applications</u>	<u>Flight Crew Applications</u>
Digital maintenance manuals	Databases	Graphical weather reports
Store loadable LRU software	In-Flight Entertainment	Navigation charts
Onboard 615/615A dataloading	Email	Airborne Security Surveillance
QAR Interface	Web Server	High-Speed Air-Ground Data Link
	Credit Card validation	

SPECIFICATIONS
Performance

- Processor Celeron 500 MHz
- RAM 256MB ECC SDRAM
- Storage 2 each 12 GB harddrive, expandable and capable of RAID Disk mirroring
- Subsystems The ARINC 429, ARINC 717 and Discretes are controlled by a subsystem processor off loading the main application processor
- Ethernet Switch SNMP Managed 12 port switch, with VLAN and separate processor

Interfaces

- ARINC 429 7Tx, 15Rx
- ARINC 717 1Rx, Tx (Harvard Bi-phase or Bi-polar return to zero)
- Ethernet Switch 12 ports, 10 BaseT / 100 BaseTX auto sensing, auto negotiating
Supports Simple Network Management Protocol (SNMP)
Supports SNMP Management Information Base (MIB) entries
Supports port-based VLAN functionality
- RS-232 2 channels
- RS-422 2 channels
- Discretes 16 Inputs & 16 Outputs
- Modem 2 wire analog, ATT compatible, 2.4 Kbs to 56 Kbs
- Utility port Front panel interface: display, keyboard, mouse, floppy drive, SCSI, Ethernet

Power

- Primary 115VAC, 400Hz or 28VDC
- Secondary 28VDC backup when operating on 115VAC, 400Hz
- Battery holdup Supports orderly Windows NT shutdown

Mechanical

- Dimensions 7.8"H x 7.58"W x 14.52"D
- Weight 21.5 lbs.
- Standards ARINC 600, 6MCU chassis, Type 2 connector
- Front panel Utility port connector Battery access panel LEDs - power, fail, heating

Environmental

- DO-160D Categories: A1, A1, C, A, B, B, S[B2 + RB12], A, E/Z, B, E./Z, A, T, M, A1E1, A
- Temperature Operating -40°C to +65°C

Options

- ISDN S/T Interface 128K Baud (Replaces ARINC 429, 717 Interfaces)
- RedHat Linux OS
- UPS