

Miniature Network ARINC-664 Interface Unit



Applications

- Flight test instrumentation
- Avionics data acquisition unit
- Air vehicle test, certification, or development
- Ethernet-based distributed network systems
- System safety monitoring

Features

- Network-based ARINC-664 data acquisition and encoding unit (DAU)
- Fast Ethernet 100BASE-T port for:
 - acquisition setup and configuration
 - SNMP status and control
 - acquisition data transport
 - time synchronization using IEEE 1588
- One dual (redundant) ARINC-664 receive interface module
- Supports up to 64K VLIDs
- Provides an optical interface to the ARINC-664 bus
- Full integrity and redundancy management per the ARINC-664 part 7 standard
- Performs complete reassembly of fragmented messages
- Messages are time-tagged at the interface with IEEE 1588 PTP time
- SNMP MIB catalog for statistics monitoring
- Environmentally sealed package
- Small footprint

Description

The Mn664-2000L includes an ARINC-664 bus interface module, a processor, power supply and an IEEE 1588 time and Ethernet interface module that also functions as an overhead card (MGPI-500-1).

The Mn664-2000L is a miniature networked encoding unit that timestamps and processes incoming ARINC-664 data and sends packetized data to designated nodes on an Ethernet network. Its ARINC-664 (AFDX[®]) data bus interface module receives data from an ARINC-664 avionic switch.

Each fiber optic interface transmits and receives using different wavelengths on the same physical fiber (Note: the transmit path on the Mn664-2000L is permanently disabled). The interface performs integrity and management per ARINC-664 part 7 and all incoming messages are time-tagged with IEEE 1588 time using hardware at the interface. Integrity and redundancy filtering capability can be disabled.

The Mn664-2000L outputs up to 50 Mbps of data or 50,000 data packets (whichever is slower) through its 100BASE-T Ethernet output interface.

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Mn664-2000L Datasheet

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Management
System
AS9100C
ISO 9001:2008