

## Miniature PCM to Network Gateway with IEEE 1588 Time



### Applications

- Network-based data acquisition system
- Legacy PCM system to Network Data Acquisition System Gateway
- CAIS applications
- Airborne instrumentation system

### Features

- Gateway between a PCM-based system and a networked data acquisition system
- Provides network capability to:
  - Configure the PCM system
  - Collect data from the PCM system
  - Timestamp the incoming PCM stream
- Acquires PCM clock and data from the PCM system
- Acquires time from the network in accordance with IEEE 1588
- Incorporates an RS-232/422 serial interface as a pass-through for setting up and configuring the PCM via the network
- Packetizes acquired data from the PCM and transports it over the network
- Built-in programmable frame correlator
- Supports simultaneous sampling capability
- SNMP MIB for statistics monitoring
- HTTP web interface for dynamic parameter adjustment:
  - bits per word (8 – 16)
  - bits per minor frame (up to 8K)
  - minor frames per major frame (1 – 256)
  - frame sync bits and mask (up to 32 bits each)
  - bit error before lock is dropped (0 – 15)
  - bit slip window (0,  $\pm 1$ ,  $\pm 2$ ,  $\pm 3$ )
  - good frames to acquire lock (1 – 16)
  - bad frames to drop lock (1 – 16)
  - SFID word position (any location in minor frame)
- Environmentally sealed package
- Small installation footprint

### Description

The Miniature PCM to Network Gateway (MnPCM-2000) provides a gateway between any generic PCM system and a network-based system. It provides a minor/major frame correlator, timestamps minor frames based on IEEE 1588 time, and packetizes data frames for transmission to the network. The unit also provides an RS-232/422 serial interface pass-through for setting up and configuring the PCM system. The unit supports Fast Ethernet (10/100BASE-T) that is fully compatible with IEEE 1588 to accept the grandmaster clock from the network.

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### MnPCM-2000 Datasheet

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