

### Miniature Ethernet Interface Module



#### Applications

- CAIS applications
- Distributed systems
- Time-tagging data
- Ethernet to PCM

#### Features

- Single Channel Ethernet Module
- Creates and outputs two independent 100% composite data output streams of Class II PCM, similar to IRIG-106 Chapter 8
- MAC supports ARP (Address Resolution Protocol) Internet Protocol
- Independently programmable PCM formats
  - Frame Size either 128 or 256 Words per Frame
  - PCM Bit-Rate programmable from 20Mbps to 157.5Kbps in 128 steps
  - Frame time enable/disable
  - Bit Mode: 20 Bit, or 24 Bit
  - Output Format: NRZ-L or RNRZ-L
  - Bus ID configuration bits
  - PCM enable/disable
  - PCM Frame Sync Char user programmable (default: 0xFAF320)
  - Time format BCD/Binary (setting applies to both channels)
- Multiple modules may be installed within a single stack

#### Description

The METI-201A-1 is a Miniature Ethernet Interface Module with composite data output and is a member of the MEDAU-2000, MCDAU-2000 & MWDAU-2000 product family. The module is used to create a high speed, 100% composite data output stream class II PCM similar to the IRIG-106, Chapter 8 requirements. The composite data output streams contain all Ethernet data acquired by the module. Each PCM output channel can be independently programmed to a different format and a different PCM bit-rate, up to 20Mbps. The PCM Frame Sync character for each PCM channel is user programmable (Default is 0xFAF320). The METI-201A-1 module uses large on-board SRAM's and internal FIFO's to buffer the incoming Ethernet packets. This reduces the possibility of packet drops due to buffer overflows during long periods of high-speed burst Ethernet data. The METI-201A-1 can store over 1024 entire Ethernet packets in its internal memories.

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#### METI-201A Datasheet

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 Specifications subject to change without notice.

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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