

Miniature Ethernet Interface Module for MSSR-2010-SA & MSSR-110C Recorders



Description

The METI-101M-1 is a miniature Ethernet interface module for use in TTC's MSSR-2010-SA and MSSR-110C miniature IRIG 106 Chapter 10 multiplexer/recorder. The module is used to create complete Chapter 10 compatible Ethernet data packets that are sent to the recorder overhead module for storage onto CompactFlash modules. The module accepts all standard Ethernet packet types (IP, TCP, UDP, etc.). The METI-101M-1 will not accept jumbo packets or any Ethernet packets over 1522 bytes in length. The METI-101M-1 operates in the promiscuous mode and senses all incoming Ethernet traffic on the link. The stored Chapter 10 packets contain all Ethernet data acquired by the module. The user has the option to save or discard certain packet types from the output data if desired. ARP and pause packets can be saved or excluded from the output on a packet type basis. Packets flagged as being bad can also be excluded from the output if desired. The METI-101M-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-101M-1 can store over 1024 entire unprocessed Ethernet packets and up to four complete Chapter 10 data packets in its internal memories. The total system bandwidth of all the active input modules in a system should not exceed the maximum sustained recording bandwidth of the MSSR-2010-SA to prevent the possibility of data loss.

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METI-101M-1 Datasheet

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Specifications subject to change without notice.

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Features

- For use in TTC's MSSR-2010-SA and MSSR-110C miniature IRIG 106 Chapter 10 multiplexer/recorder
- Single channel Ethernet module
- Operates in the promiscuous mode and senses all Ethernet traffic on the link
- Accepts all standard Ethernet packet types (IP, TCP, UDP, etc.) up to 1522 bytes in length
- 10/100BASE-T autosense Ethernet speed support
- Autosenses the Ethernet cable type used (standard or crossover) and configures itself accordingly
- Configurable to have MAC support ARP (Address Resolution Protocol) Ethernet Protocol
- Configurable to have MAC support pause flow control
- Configurable to save or discard ARP and pause frames from the output data on a packet type basis
- Configurable to save or discard bad Ethernet packets
- Time tagging per IRIG Chapter 10
- 100% data recording of received Ethernet packets
- Multiple METI-101M-1 modules can be placed in a single recorder
- Configurable using TTC's programmable software application

Applications

- Data acquisition systems
- Flight test data recording
- Flight test instrumentation
- Lab test



CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

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