

Highlights

- Over 12Gbps (1.5GBps) Sustained Record Rate
- Up to 48TB of RMM Storage Capacity
- Simultaneous Chapter 10 Publishing up to 4Gbps
- Frame, Upper Level Protocol, Message/Sub Message Filters
- CH7/HDLC PCM Encoder/Decoder
- 4/8/12 Channel 1-10G Optical
- 4/8/12 Channel 1G Copper Ethernet
- 12/24 Channel 50Mbps RS-422 PCM

Overview

The Modular Instrumentation TAP Recorder (MITR) is a high-bandwidth, high-capacity IRIG 106 Chapter 10 data recorder/publisher with a TAP Interface Module (TIM) & multiple Tera-Bytes of high-speed removable storage. MITR is suitable for a wide range of data recording requirements in harsh & demanding environments.



The Removable Memory Module, RMM, consists of 1 to 3 drives in a single carrier supporting recording bandwidths to 1.5GBps and up to 48TB. With data security and throughput in mind, 3 independent data paths (from inputs to disks) allow individual data channels to be written to individual drives. Each carrier includes a built-in power and a 10GE download port eliminating the need for expensive, standalone debrief stations.

MITR 5510's configurable optical TIM provides protocol independent full duplex transceivers. Applications include Ethernet, Fibre Channel, ARINC 818, & sFPDP. There are two copper TIM's for 10/100/1000BASE-T Ethernet & RS-422 PCM up to 50Mbps per channel. Input channels are recorded/ published while mirrored outputs provide full active TAP capabilities. Optical TAP components are powered via primary or auxiliary 28VDC.

MITR also contains a Layer 2/3 Managed Ethernet Switch with (4) external interfaces, a GPS receiver & IRIG Time Code Generator. The hardware based IEEE-1588v2 time engine provides multiple Grand Master, Master, Slave & Transparent clock capabilities. The 4 external Ethernet interfaces can be used for IRIG 106 Chapter 10 data publishing, command/control or as a fully capable Layer 2/3 Managed Switch. Any/all external Ethernet interfaces can also be recorded. A CH7/HDLC PCM Encoder/Decoder provides connection to a Telemetry transmitter.

Specifications @ telspandata.com/MITR



Highlight Specifications



28VDC
Primary &
Auxiliary
MIL-STD-704A



Width 6"
Length 8.97"
Height 5.34"



MIL-STD-810F
Shock/Vibe
Gun Fire/Sand
Rain/+ More



~ 12 Pounds



-40C to +70C
MIL-STD-810F



12Gbps
(1.5GBps)
Sustained
Recording Rate



Up to 48TB SSD
10GE Download
Port (Built in)



Optical/Copper
Ethernet &
Fibre Channel,
sFPDP, PCM



GPS Receiver



IRIG A/B/G
1PPS, DC & AM
IEEE-1588v2
Grand Master,
Master, Slave



(4) 10/100/1000
Ethernet Ports
Layer 2/3
Managed



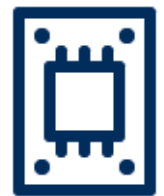
CH7 & HDLC
Encoder/Decoder
Input/Output
RS-422



RS-232
RS-422



Discrete I/O IAW
IRIG 106 CH10
Reset / Event In
Data Errors Out



FPGA for
Protocol
Transforms

Full Specifications @ telspandata.com/MITR