

## Highlights

- Copper Fibre Channel TAP and Recorder
- 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

## 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 5520 TAP Interface Module (TIM) provides up to 6 TAP's (12 Rx channels) of 1G copper Fibre Channel using Quadrx connectors. Input channels can be filtered, recorded and published while mirrored outputs provide full active TAP capabilities. 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](https://telspandata.com/MITR)



## Highlight Specifications



28VDC  
Primary &  
Auxiliary  
MIL-STD-704A



Width 6"  
Length 8.97"  
Height 7.18"



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



~ 13 Pounds



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



12Gbps  
(1.5GBps)  
Sustained  
Recording Rate



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



Copper  
Fibre Channel



GPS Receiver



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



(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](https://telspandata.com/MITR)