# **Telspan Data**

## Highlights

- 64Gbps (8GBps) Sustained Record Rate
- 64TB of Data Storage Capacity
- 12 Channels 1-10G Optical (Multiple Protocols)
- 8 Channels MIL-STD-1553 (MT/RT)
- 8 Channels Video (S-Video/Composite)
- 8 Channels PCM (RS-422)
- 4 10/100/1000BASE-T Ethernet Interfaces
- 2 Analog Audio Channels
- 1 RGB Video Output Channel
- 2 IRIG 106 Chapter 7/HDLC PCM Outputs
- GPS, IRIG-A/B/G, IEEE-1588 PTP, MIL-STD-1553 Timing
- MIL-STD-1553, Ethernet, Discrete, & RS232/422 Command, Control & Monitoring
- FIPS 140-2 Encryption

### Overview

The CPAS-5530 Modular Instrumentation TAP Recorder (MITR) is a <u>high-bandwidth</u>, <u>high-capacity</u> IRIG 106 Chapter 10 data recorder/publisher with a modular TAP Interface Module (TIM) & Removable Memory Module (RMM). MITR is suitable for a wide range of data recording requirements in harsh & demanding environments.

The configurable TIM provides protocol independent full duplex 1-10G optical transceivers, MIL-STD-1553, video, audio & PCM channels. Logic driven protocols for optical channels include Ethernet, Fibre Channel, sFPDP, ARINC-818, & other communication transports. Rx input channels are recorded, published & also can be routed to any Tx output channel. MITR supports user configurable Framing & Signaling, Upper-Level Protocol, & Message/Sub-Message filtering of data. Also MIL-STD-1553 message/word level filtering. The filtered data can be published & or transmitted out the IRIG 106 Chapter 7/HDLC PCM outputs.

MITR supports the playback of recorded video or PCM in real-time to the video or PCM output channel which is controlled by the MIL-STD-1553, RS232/422 or Ethernet command and control interfaces.

The MRMM consists of up to 4 NVMe solid state drives in a single carrier supporting recording bandwidths up to 64Gbps (8GBps) & capacities up to 64TB. MRMM drives can also be used as Network Attached Storage (NAS) via multiple front panel Ethernet interfaces. User configurable channel groups can be directed to individual drives, multiple drives, & or Ethernet interfaces (publishing) outputs of TIM physical channels or filtered virtual channels. A modular bay allows use of the Government provided DRMM as an option.

FIPS 140-2 encryption/decryption is supported. Keys can be received via MIL-STD-1553, Ethernet, or RS232/422 command & control interfaces or via the RMM on insertion/power up (key is then erased from RMM).

MITR also contains a GPS receiver, IRIG Time Code Generator, & hardware based IEEE-1588v2 time engine. The external Ethernet interfaces can be used for IRIG 106 Chapter 10 data publishing, command/control, data download, NAS or as a Switch. Any/all external Ethernet interfaces can also be recorded.

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# MITR 5530 Modular Data Recorder



# **Highlight Specifications**



28VDC MIL-STD-704A MIL-STD-1275E



Width 6.25" Length 8.83" Height 7.68"

MIL-STD-810F MIL-STD-461E



~ 14.0 Pounds



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



64Gbps

(8GBps)

Sustained

**Recording Rate** 



Up to 64TB NVMe SSD FIPS Encryption



(12) Optical (8) Video, (8) PCM (8) 1553



**GPS** Receiver



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

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(4) 10/100/1000 External Ethernet En Ports 2

CH7 & HDLC Encoder/Decoder 2 PCM Output



MIL-STD-1553 Ethernet RS-232/422



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



FPGA Based Protocol Transforms