

Ground Station Systems

D.T.MUX™ RECORDER



Reference: DT-MUX-GS

D.T.MUX Ground Station
Telemetry receiver / Acquisition Systems / High Speed
Recording / Real time Data Viewing / Real time Data
reproducing / Data Replay and Post-processing

D.T.MUX RECORDER/REPRODUCER system unit does the
recording of all channels in same time with Realtime monitoring
& reproducing of analog and digital data through decom
software or physical outputs.

The Acquisition/Restitution modules are based on D.T.MUX
NanoX Modules. The unit can receive until 16
Acquisitions/Restitution modules through a backplane panel
receiver on rear panel side. The unit is completely flexible and
scalable.

NANO X
THE NEXT LEVEL OF DATA ACQUISITION

- A distributions panel can be fitted for easy plug like BNC or other lab connectors.
- The System can work with ETEP "D.T.MUX Viewer" Software or another post processing software based on Irig 106 Chapter 10.



*The rear panel offers full
compatibility with NanoX acquisition
and playback modules*

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MECHANICAL

Specification	Remark
Size (S)	7UPC 19"
Weight	≈ 18Kg
Connectors	83513 or Patch panel
Mounting	19" Rack panel



ELECTRICAL

Input Voltage	100 – 240 V AC
Input Frequency	50 / 60 Hz
Power Consumption	≈ 350 W Nominal

ENVIRONMENTAL

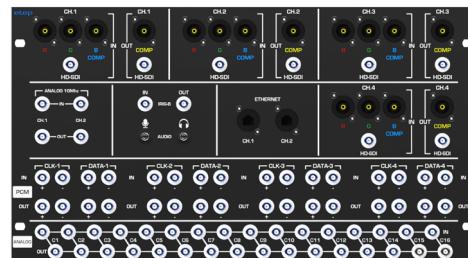
Specification	Remark
Temperature	-15°C to 55°C Operating -20°C to 85°C Storage
Cooling	Active Fans
Humidity	85% Non-Cond
Vibration	1Hz to 50Hz 0.22 g RMS
Shocks	20g 11ms Operating
Altitude	+ 15,000 ft Operating
MTBF	> 50,000 hours Computed

PATCH PANELS

To avoid use of MICRO D (MIL-DTL-83513) from NanoX modules a patch panel can be directly integrated on the rear chassis, allowing input/output signals to be connected via standard BNC/RCA/SMA, or other connectors



An external 19" patch panel is also available for configurations with a high number of inputs/outputs, or to relocate the I/O connections away from the rear of the device.



STANDARD FUNCTIONALITY

Specification	Standard
OS	Windows 11 Pro
Software(s)	D.T.MUX Viewer / Other Post Processing software compatible with Irig 106 Chapter 10
Storage	RAID Controller (Until 32TB)
GbE	Configuration/Control
Ethernet	Data download and Streaming
Time sync	GPS Antenna input / Irig B / PTP v2
Audio	Input/Output
Recording	IRIG 106 Chapter 10 / DTMUX format
COM port	RS-232 Configuration/Maintenance
LED	Status / GPS / IRIG B

SELECTABLE CHANNELS

The system is fully compatible with the NanoX platform. Please refer to the NanoX catalogue to select the appropriate acquisition and restitution modules for your architecture.

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