

Ethernet Data Recorder

MODEL 3500



KEY FEATURES

Standard Dual 10 Gigabit and Dual 1 Gigabit Ethernet Interfaces with options for additional I/O

Separable Management and Data Network Interfaces

Native IRIG-106 Chapter 10 Recording Format

Storage Configurations to 53TB, Diskless (Network Boot & Storage), 22TB, 38TB & 53TB Configurations

Hard Drive AES Encryption *

Data at Rest Support *

Removable Hard Drive *

IRIG Time In/Out *

* Optional

GENERAL DESCRIPTION

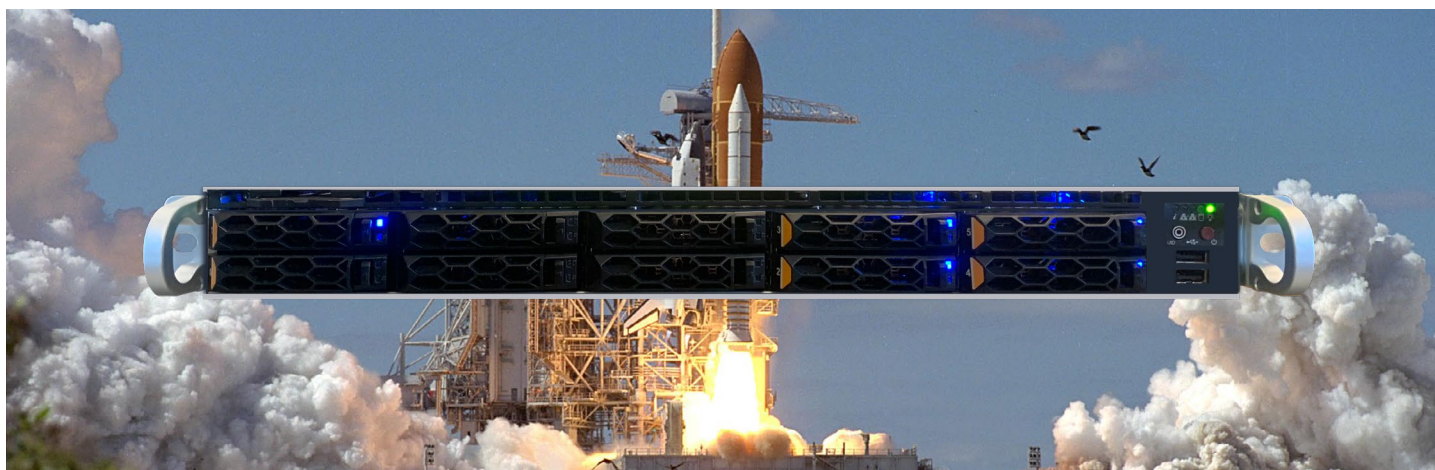
The Model 3500 Ethernet Data Recorder is a high data rate, large capacity streaming network recording system. It uses proven recording technology from Ampex Data Systems and Wideband Systems to deliver consistent, reliable recording and playback of streaming IP telemetry data.

The 3500 supports Telemetry over IP (TMoIP), Voice over IP (VoIP) and Video over IP streaming data recording and reproduction applications. Additional operational modes are available for collecting Ethernet traffic for subsequent analysis by industry-standard tools such as "Wireshark".

PERFORMANCE AND CAPACITY

The Model 3500 is available in a standard 1U 19-inch rack mount unit with two 1Gb and two 10Gb Ethernet interfaces. The 10Gb Ethernet interfaces are SFP configurable as optical (e.g. 10GBase-SR) or copper (10GBase-T, 10GBase-CX), and the 1Gb Ethernet interfaces (1000Base-T) are presented on RJ-45 connectors.

The system supports future network expansion to 40-GigE, 100-GigE, and Wi-Fi . Network interfaces can be configured for Management, Record Data, Playback Data or any combination. The unit uses reliable COTS SSDs and server technology, backed by over 80 years of Ampex and 25 years of Wideband Systems expertise. Storage is available for up to eight removable high-performance SSDs, with total capacity up to 53TB. Greater capacity is possible as drive technology advances. An optional iSCSI interface enables access to remote storage.



RELATED PRODUCTS

Receiver	Gateway	Best Source Selector	Telemetry Data Processor
			

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TECHNICAL SPECIFICATIONS

CPU Subsystem: Intel Xeon Gold 5415+, 2.9 GHz (4.1 GHz boost), 22.5 MB L3 cache, 64GB 6400MHz DDR5 with ECC RDIMM

Network Interface: Two 10 Gigabit SFP+ Ethernet ports and two 1000Base-T Gigabit Ethernet

Fixed Storage: Separate Firmware/OS Device (can be write-protected)
Configuration/Logging Device option

Removable Storage: 8 Removable Solid State Drives up to 53 TBytes; (22TB, 38TB, 53TB & Diskless w/Network Boot & Storage);
Optional removable Hard-Drive

Network Protocols : UDP, IP

Data Protocols: IRIG 218, IRIG 106 Chapter 10/11

Control Protocols: HTTP, Command Line, TRMS-RMS

Time Input: IRIG A, IRIG B, NTP, PTP

Operating System: Red Hat Enterprise Linux 9.1 (DISA STIG compliant)

Hard Drive Encryption: Advanced Encryption Standard (AES), 256 bit keys; *, Data at Rest Support *

Performance

Payload Data Rate: 800+ Mbps (sustained aggregate bit rate)

Power

Voltage: 120/240V 50/60 Hz AC

Dissipation (Full Load): 130W

Mechanical

Dimensions: Standard 19 inch 1U Rackmount Chassis,
20.6 inches deep; 1.75" (42.8mm) H x 17.1" (434mm) W x 20.6" (523mm) D

Mounting: Mounting ears, optional chassis slides or tray

Weight (System): 20lbs (9.1Kg)

Environmental

Temperature: Operating 0° C to +45° C
Non-operating -10° C to +60° C

Relative Humidity: Non Condensing 25% to 95%



Recognizing that no standard product fits every mission, Delta Telemetry Systems is ready to deliver tailored solutions for your unique application requirements.

Specifications subject to change without notice.

