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Data Sheet

August 15, 2026

ALTA DATA TECHNOLOGIES

Alta Data Technologies ENET2-1553-1F Dual-Channel 1553 for Real-Time Ethernet Connectivity Module

The ENET2-1553-1F from Alta Data Technologies is a dual-channel 1553 interface module designed for real-time Ethernet connectivity. It provides solid MIL-STD-1553 communication capabilities, making it ideal for aerospace and defense applications requiring reliable data bus connectivity over Ethernet networks.



MODEL

**Alta Data
Technologies
ENET2-1553-1F**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ENET2-1553-1F

LISTING

<https://aumictechlabs.com/products/enet2-1553-1f-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Alta Data Technologies ENET2-1553-1F is a dual-channel MIL-STD-1553 interface module that remotes 1553 bus operations over standard IP/UDP Ethernet networks. It integrates Alta's AltaCore™ 32-bit FPGA protocol engine with a real-time IP/UDP server, enabling seamless connectivity for aerospace and defense applications. The module supports full Bus Controller, Remote Terminal, and Bus Monitor functionality across MIL-STD-1553A/B standards, including MIL-STD-1760 startup sequences. Technical Specifications 1553 Interface 1 to 2 independent dual redundant (A/B) channels MIL-STD-1553A and MIL-STD-1553B compliant Full BC, RT, and BM

capability Optional dual function (BC/Monitor or mRT/Monitor) or full function (BC/mRT/Monitor) modes Ethernet Connectivity 10/100/1000 Base-T RJ45 connector Real-time UDP latency: <20 microseconds (device-level) Physical Specifications Dimensions: 13.5 cm × 3.7 cm × 4 cm Weight: ~200 grams Power input: 5–30 V DC Typical consumption: 400–700 mA at 5 V; maximum 900 mA Optional PoE Type 1 (IEEE 802.3af) support; USB powered operation: ~1 A typical Environmental Standard operating temperature: 0–70°C Optional extended range: –40°C to +85°C Optional conformal coating availableKey Features Signal capture on channel 1: 2048 samples at 20 MHz sampling rate (50 ns per sample) Automatic Bus Monitor mode for 1553-to-Ethernet bridging Auto-load BC, RT, and BM firmware images for rapid deployment IRIG-B RX decode, PPS, triggers, and discrete I/O support MIL-STD-1760 startup sequencesSoftware Integration The AltaAPI™ toolkit has code portability across operating systems and RTOS platforms, allowing applications developed for standard PCI/PCIe cards to run with minimal or no recompilation. Optional AltaView Analyzer and AltaRTVal protocol validation tools are available. Typical Applications Laboratory testing, field deployment, avionics systems integration, and distributed 1553 bus monitoring over IP networks.

ENET215531F Characteristics / Specifications

PARAMETER	VALUE
Model	ENET2-1553
Instrument Type	Ethernet to MIL-STD-1553 converter
Dimensions	13.5 × 3.7 × 4 cm without cabling
Mass	200 g without cabling
Ethernet	standard 10/100/1000 UDP
Input Voltage	5 to 30 VDC conditioned
Current 100e One Ch	400 mA at 50 percent load
Current 1000e One Ch	700 mA at 50 percent load
Current 100e Two Ch	600 mA at 50 percent load
Current 1000e Two Ch	900 mA at 50 percent load
Usb Power	USB powered OK with 1000-plus mA source
Ambient Max	plus 55 C
Time Tag	64-bit 20 ns
Irig	IRIG-B PAM RX or 1, 5, 10 MHz PPS
Triggers	hardware trigger input and output
Avionics Discretes	6 avionics discretes / external RT addressing
Serial Discretes	two RS-485 and one TTL discrete / external clock
Protocol	MIL-STD-1553A and 1553B with 1760 startup
Two Channel Full	ENET2-1553-2F BC/mRT and monitor on two channels
One Channel Full	ENET2-1553-1F full function on one channel
Two Channel Dual	ENET2-1553-2D BC/Mon or mRT/Mon on two channels
Poe	IEEE 802.3af POE Type 1 available asPsuffix
Extended Temperature	minus 40 to 85 C industrial components withEsuffix
Manufacturer	Alta Data Technologies
Software	AltaAPI, AltaView, AltaRTVal

ENET215531F Specifications

PARAMETER	VALUE
Applications	Lab and deployed remoting of 1553 over LAN, UAV/flight-line bridging, and Ethernet-hosted BC/RT/monitor.
Key Features	10/100/1000 UDP thin server to 1553
Technical Specifications	Model: ENET2-1553

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From Alta Data ENET2-1553 datasheet (Alta-ENET2-1553). Channel count and full versus dual function are defined by the -1F/-2F/-1D/-2D suffix. Confirm POE, conformal coat, and extended-temperature suffixes on the installed unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.