

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ALTA DATA TECHNOLOGIES

Alta Data Technologies ENET2-1553-2D Dual-Channel 1553 for Real-Time Ethernet Connectivity Module

The ENET2-1553-2D from Alta Data Technologies is a dual-channel 1553 interface module designed for real-time Ethernet connectivity. It allows seamless integration of MIL-STD-1553 communication with Ethernet networks, facilitating efficient data transfer and network-centric operations. Ideal for aerospace, defense, and industrial applications requiring solid and reliable 1553-to-Ethernet bridging.



MODEL

**Alta Data Technologies
ENET2-1553-2D**

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ENET2-1553-2D

LISTING

<https://aumictechlabs.com/products/enet2-1553-2d-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Alta Data Technologies ENET2-1553-2D is a dual-channel MIL-STD-1553 interface module that bridges 1553 communications to Ethernet networks via IP/UDP. Built on the AltaCore FPGA protocol engine, this compact appliance enables real-time remoting of 1553 operations across local area networks. It supports full Bus Controller, Remote Terminal, and Bus Monitor functionality with integrated signal capture on the first channel for cable diagnostics and cybersecurity analysis. The device operates across 10/100/1000 Mbps Ethernet and delivers UDP

request/response latency typically under 10 μ s from device to 1553 buffers, with IP/UDP bridging response times as fast as 20 μ s. Power input ranges from 5–30 V DC with typical consumption of 300–700 mA, or optionally via IEEE 802.3af PoE (Type 1) up to +55°C ambient. The module is housed in a rugged 13.5 × 3.7 × 4 cm enclosure weighing 200 g and includes 64-bit time tags with 20 ns resolution, IRIG-B RX decode, PPS, hardware triggers, and full error injection/detection. Dual redundant (A/B) MIL-STD-1553 connections use Glenair Mighty Mouse connectors. AltaAPI supports Windows, .NET, LabVIEW, ANSI C, and Linux development without code recompilation, delivering high portability. Suitable for aerospace, defense, and industrial systems handling 100–2000 packets per second. EU and China RoHS compliant. Technical Specifications MIL-STD-1553 Channels: 1 to 2 independent, dual redundant (A/B) Ethernet Interface: 10/100/1000 Base-T IP/UDP bridging Dimensions: 13.5 × 3.7 × 4 cm Weight: 200 g (without cabling) Power Input: 5–30 V DC; typical current 300–700 mA; maximum 300–900 mA; USB power requires 1000+ mA source Optional Power over Ethernet: IEEE 802.3af (Type 1); operates to +55°C ambient Operating Temperature: MIL-STD-1760 startup capable Protocol Engine: AltaCore 32-bit FPGA Time Tags: 64-bit with 20 ns resolution Real-Time Latency: <10 μ s UDP RX/TX to 1553 buffers; <20 μ s IP/UDP bridging response Throughput: 100–2000 packets per second 1553 Connectors: Glenair Mighty Mouse (e.g., 801-011-02M10-26PA/B) Compliance: EU and China RoHS Key Features Full Bus Controller, Remote Terminal, and Bus Monitor modes Auto Bus Monitor for transparent 1553-to-Ethernet bridging Auto-load BC, RT, and BM firmware images at startup Signal capture on channel 1 for cable troubleshooting and cybersecurity modeling IRIG-B RX decode, PPS input, hardware triggers (input/output), discrete I/O 1553A and 1553B protocol support Sequential and Remote Terminal mapped monitoring Full time-tag error injection and detection External clock source compatibility Compatibility & Integration AltaAPI supports Windows, .NET, LabVIEW, ANSI C, and Linux platforms. RTOS integration available by factory consultation.

ENET215532D 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

ENET215532D 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	
Specifications	
PARAMETER	VALUE
Model	ENET2-1553
Instrument Type	Ethernet to MIL-STD-1553 converter
Dimensions	13.5 x 3.7 x 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

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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