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**Data Sheet**

August 15, 2026

## ALTA DATA TECHNOLOGIES

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

The ENET2-1553-2F from Alta Data Technologies is a dual-channel 1553 interface module designed for real-time Ethernet connectivity. It enables seamless integration of MIL-STD-1553 data bus communication into Ethernet-based systems. Ideal for aerospace, defense, and industrial applications requiring solid and reliable data transfer.



## MODEL

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

## CALIBRATION

**Available on  
request**

## CONDITION

**Used**

## STATUS

**In stock**

## RFQ / SKU

**ENET2-1553-2F**

## LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

## This unit

The Alta Data Technologies ENET2-1553-2F is a dual-channel MIL-STD-1553 interface module that bridges 1553 data bus communications to Ethernet-based systems. Housed in a compact, rugged 13.5 × 3.7 × 4 cm package weighing approximately 200 grams, this module delivers real-time IP/UDP connectivity with <10 µsec latency to 1553 buffers, making it suitable for aerospace, defense, and industrial applications demanding reliable, time-critical data transfer. Technical Specifications MIL-STD-1553 Interface Dual independent, redundant (A/B) channels supporting MIL-STD-1553A and MIL-STD-1553B Full Bus Controller (BC), multiple Remote Terminal (mRT),

and Bus Monitor (BM) operation modes 64-bit time tags with 20 ns resolution and full error injection/detection A/D signal capture on first channel for troubleshooting and cybersecurity modeling Sequential and RT mapped monitor modes with autostart for 1553 UDP broadcasts Hardware triggering on input and output Ethernet Connectivity 10/100/1000 Mbps IP/UDP real-time Ethernet bridge to 1553 Auto BM Mode for 1553-to-Ethernet bridging <10  $\mu$ sec latency from UDP receive/transmit requests to 1553 buffers IP fragmentation not supported Power & Environmental 5–30 V DC input; 400–700 mA typical at 5 V, 900 mA maximum Optional IEEE 802.3af PoE Type 1 support; USB power capable (1000+ mA source) Operating temperature to +55°C ambient (with PoE option) EU and China RoHS compliant; MIL-STD-1760 startup compatible Physical Glenair Mighty Mouse connectors (e.g., 801-011-02M10-26PA/B mates)Key Features AltaCore FPGA protocol engine and AltaAPI software interface for code portability AltaAPI available for Windows, .NET, LabVIEW, ANSI C, and Linux SAE AS4111 5.2 RT Validation support Optional AltaRTVal protocol validation and AltaView Analyzer toolsTypical Applications Aerospace test systems, defense platform integration, industrial real-time monitoring, protocol validation labs, and deployed field instrumentation requiring MIL-STD-1553 bridging to modern Ethernet infrastructure.Compatibility & Integration Designed for cross-platform application deployment with minimal code changes. Compatible with standard Alta card implementations; AltaAPI enables direct portability across hardware configurations.

# ENET215532F 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                       |

# ENET215532F 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](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
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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.