ENET-1553-EBR™ is an innovative product that provides “remoting” of 1553 AS5652 EBR operations on 10/100/1000 Ethernet IP/UDP local area networks (LAN). ENET-1553-EBR is a small, low-power, rugged device that provides connectivity for up to eight AS5652 RT devices, single BC or composite monitor.

Altas ENET-1553-EBR Provides Real-Time Ethernet Connectivity for up to Eight AS5652 1553 EBR Devices

**NOTE: ENET-1553-EBR (server) is a real-time Ethernet/EBR devices, but your computers’ (client) IP stack may not be!** The ENET-1553-EBR device provides real-time UDP receive and transmit requests to EBR buffers, but the client’s IP/UDP stack will induce path delays as compared to backplane cards. For many applications (<100-1000 packets per second), this product will provide unparalleled flexibility in EBR configurations (much better than USB devices). Contact Alta for test results on various OS and computer configurations – your system results may vary.
AltaCore-1553 (EBR AS5652) eNet-1553-EBR™ Specifications

General
- 8 Half Duplex RS-485 EBR Interfaces
- AS5652 Compliant: Link & Spec Mode
- 13.5 x 3.7 x 4 cm, 200 g without cabling.
- Standard 10/100/1000 Ethernet UDP
- Power 1000E @ 50% Load: 800 mAmps
  Power 100E @ 50% Load: 400 mAmps
- 5-30 VDC Input Accepted.
- POE Optional (+55C Ambient Max Temp). USB Powered OK (1000 mAmp Source).
- Glenair Mighty Mouse Connectors.
  801-011-02M10-26PA/B Mates.
- One Megabyte RAM for 1553 Buffering
- Common Data Packets (CDPs) for all BC, RT and Monitor Functions
- Flash Disable Factory Setting for Secure Mem
- Parts Temp (C): -55 to +120 Storage, 0 to +70 Commercial, -40 to + 85 Extended Temp
- Advanced Startup, User and Continuous BIT
- IRIG-B PAM RX or 1, 5, 10 MHz PPS
- IP Fragmentation NOT supported.

Monitor
- Composite Monitor on J2 RS-485 Output
- Internal Sequential Monitor
- 64 bit, 20ns Time Tags, IRIG, Ext Clock Source

AltaAPI Development Software
- Multi-Layer, Portable AltaAPI Software Tool Kit.
- Windows 32 and 64-bit Support
- Portable Berkeley BSD Layer 0 Available (Linux, Unix, etc...)

Part Numbers
- ENET-1553-EBR
  o First 4 EBR Channels on J1
  o Second 4 EBR Channels and Composite Monitor on J2

Options: Add -E for Ext Temp Parts (-40 to +85C), -N for NVRAM Write Protect, -P for POE, -F for Conformal Coat.
Example: ENET-1553-EBR-EFN

Optional J1 and J2 Cables:
- ENETCAB-J1-01 - first four channels
  o DB26, Ethernet & USB Power
- ENETCAB-J2-01 – second four channels
  o Auxiliary DB-26

5 Year Limited Warranty
EU and China RoHS Compliant
Contact Alta for Special Lead Build Configurations
Non-Public Telcom/CE Device

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