ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Alta Data Technologies ENET-1553-1D* at our website: *Click HERE*

eNet-1553™

Remote 1553 Operations for Ethernet Networks

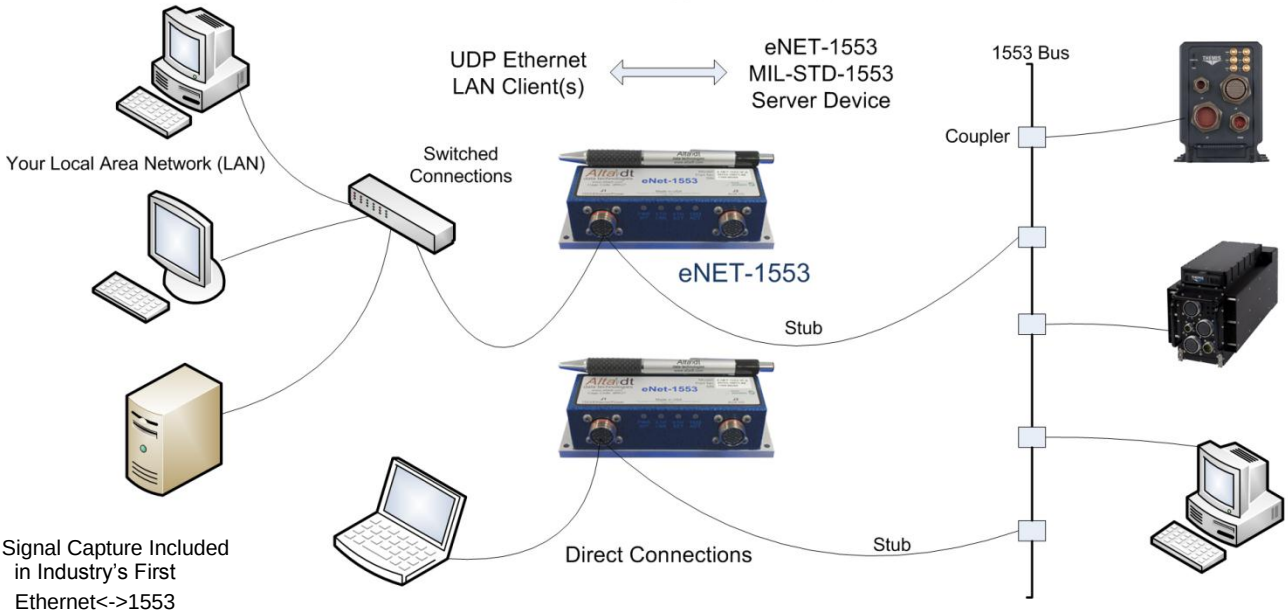


Small 13.5 x 3.7 x 4 cm
200 grams
Rugged MIL 810G Tested

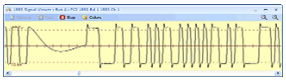
- 10/100/1000 Ethernet <-> MIL-STD-1553 Applications
- Thin-Server, Real-Time UDP Ethernet to/from 1553 **
- Remote 1553 Devices on the LAN – Small Size
- Auto Load BC, RT and BM Images for Fast Startup
- Auto BM Mode for 1553->Ethernet Bridging
- 5-30 VDC, 300-900 mAmp max/300-700 mAmp typical. 200g Weight, POE Optional, 1760 Startup
- Ideal for Lab or Rugged Deployed Applications
- IRIG-B RX Decode, PPS, Triggers, Discretes

Alta's eNET-1553 Provides Ethernet to MIL-STD-1553 Connectivity

Ideal for Lab or Rugged Vehicle Applications



A/D Signal Capture Included in Industry's First Ethernet<->1553



eNet-1553™ is an innovative product that provides "remoting" of 1553 operations on 10/100/1000 Ethernet IP/UDP local area networks (LAN). eNet-1553 is a small, low-power, rugged device that provides connectivity for one dual redundant 1553 bus and is ideal for remoting 1553 connections for in-field applications or point-point lab usage.

Alta has combined the industry's most advanced 32-bit 1553 FPGA protocol engine, ***AltaCore***™, with a real-time IP/UDP thin server. The customer can implement their application with the same feature-rich application programming interface, ***AltaAPI***™, as used with standard cards – often without even recompiling - the utlimate in code portability.

****NOTE: eNet-1553 (server) is a real-time Ethernet/1553 device, but your computers' (client) IP stack may not be!** The eNet-1553 device provides real-time UDP receive and transmit requests to 1553 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 1553 configurations (much better than USB devices). . Contact Alta for test results on various OS and computer configurations – your system results may vary.

www.altadt.com

4901 Rockaway Blvd., Building A Rio Rancho, NM 87124 USA
(In US): 888-429-1553 (Outside US): 505-994-3111 Fax: 805-504-8588

AltaCore-1553
eNet-1553™ Specifications

General

- 13.5 x 3.7 x 4cm, 200g without cabling. Rugged Mountable MIL 810G Tested.
- 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 Dual Redundant MIL-STD-1553 Interface
- One Megabyte RAM for 1553 Buffering
- Common Data Packets (CDPs) for all BC, RT and Monitor Functions
- Transmit and BC Hardware Inhibit
- Flash Disable Factory Setting for Secure Mem
- MIL-STD-1553/1553B Notice II & IV
- MIL-STD-1760, 1553A and Link-16
- Parts Temp (C) : -55 to +120 Storage, 0 to +70 Commercial, -40 to + 85 Extended Temp
- 6 Avionics Discretes/Ext RT Addressing
- Two RS-485 & 1 TTL Discretes/Ext Clock
- Advanced Startup, User and Continuous BIT
- IRIG-B PAM RX or 1, 5, 10 MHz PPS
- IP Fragmentation NOT supported.

BC Features

- Variable Framing and Subframing
- Up to 15 Retries Per Message
- Schedule Message Timing in Frames or Intermessage Gap Spacing
- Low and High Priority Aperiodic Scheduling
- Polling Interrupts, No-Ops, Ext Trigger
- Legal and Reserved Mode Codes
  - 1553A and 1553B Support 64-Bit, 20 ns
- Time Tags Full Error Injection/Detection

Playback/Signal Vector (BC)

- Real Hardware Playback from Archive Files
- Synchronized Playback with Other Alta Channels and Cards!
- Signal Vector Generation at 20 nsecs
  INDUSTRY FIRST
  - Construct 1553 Bit Signals at 20 nsecs

RT Features

- Infinite Linked Data Buffers Legal and Reserved Mode Codes
- 1553A and 1553B Support – 1760 Startup
- Full Buffering of All Mode Codes 64-Bit, 20 ns Time Tags with Full Error Injection/Detection

Monitor

- Sequential and RT Mapped Monitor
  - **Autostart for 1553 UDP Broadcasts**
- Hardware Trigger (Input and Output)
- 64 bit, 20ns Time Tags, IRIG, Ext Clock Source

AltaAPI, *AltaView*, *AltaRTVal* Software

- Multi-Layer, Portable ***AltaAPI*** Software Tool Kit. Windows™, .NET, LabVIEW™, ANSI C, Linux
- Most RTOS Platforms, Contact Factory
- Optional ***AltaView*** Analyzer .NET Windows
  - Full Analyzer Integration Tool
  - Multi Language Support Optional
  - Add "-A" Option to End of Part Number
- Optional ***AltaRTVal*** provides full AS4111 and AS4112 5.2 Protocol RT Validation/Testing (on 2 Channel Alta Cards – not on eNet).

Part Numbers

Dual Function: BC/Mon or mRT/Mon

- **eNet-1553-1D**

Full Function: BC, mRT and Monitor

- **eNet-1553-1F**

Options: Add -E for Ext Temp Parts (-40 to +85C) and -P for POE. Add –A for AltaView Analyzer.
Example: ENET-A429-8-AE

Optional Cables:

- **ENETCAB-1553-J1-01**
  - 1553, Ethernet & USB Power
- **ENETCAB-J2-01**
  - Auxiliary Mini DB-26

5 Year Limited Warranty

EU and China RoHS Compliant

Contact Alta for Special Lead Build Configurations

Non-Public Telcom/CE Device

Alta Data Technologies LLC
4901 Rockaway Blvd., Building A
Rio Rancho, NM 87124 USA
www.altadt.com
alta.sales@altadt.com

Information in this data sheet is subject to change without notice. Alta is not responsible for errors or omissions. All trademarks are reserved by their respective owners. eNet-1553, AltaCore, AltaAPI, AltaView and AltaRTVal are trademarks of Alta Data Technologies.1212 – Two Pages

Alta dt data technologies

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP