

2-Channel 10/100/1000 Mbps Ethernet Card

No Photo Available

Applications

- High-Speed Avionics Data Acquisition
- Flight Test Data Recording
- Flight Test Instrumentation
- Computer Network Interfacing

Features

- For use in TTC'S AIM and HS-AVDUA Products
- Two Independent 10/100/1000BASE-T Interfaces
- Each Interface Capable of 1.25 Gbps Bitrate
- Each Interface Provided on a Separate D-Subminiature 9-Pin Connector
- Adheres to IEEE 802.3 Standards
- Interfaces to Customized 66Mhz- 64bit CompactPCI® Bus Interface
- Ethernet Interfaces Transformer Coupled to Line
- Multiple ETN-302 Cards can Operate Simultaneously in a Single Chassis
- 3.3 VDC operation

Description

The ETN-302 card is designed for used in both TTC'S Airborne Instrumentation Multiplexer (AIM) and High-Speed Avionics Data Acquisition Unit (HSAVDAU) products. The ETN-302 card provides two IEEE Gigabit Ethernet interfaces each capable of operation at 10/100/1000BASE-T line rate speeds. The two 1000BASE-T Ethernet interfaces are accessible at the ETN-302 faceplate via two 9-pin D-subminiature receptacles. Each 9-pin connector corresponds to a single independent Ethernet interface. The ETN-302 interfaces directly to a custom CompactPCI® like high-speed bus. Each interface is designed to allow for intelligent packet filtering and acquisition with minimal overhead on the main processor card. Each port is capable of recognizing interesting packets, such as:

- ARP Packets (with Multiple IP addresses)
- Direct Packets (with or without type qualification)
- Neighbor Discovery Multicast Address Packets ('ARP' in IPv6 environment)
- NetBIOS over TCP/IP (NBT) Query Packets (under IPv4)
- Internetwork Package Exchange* (IPX) Diagnostic Packets

This allows the ETN-302 to handle various packet types in a very flexible manner. In general, the ETN-302 supports programmable filtering of any packet in the first 128 bytes of the frame header.

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ETN-302 Datasheet

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