

EFTS1025 10/100TX Ethernet Fault Tolerant Transceiver



EFTS1025, 10/100TX Ethernet Fault Tolerant Transceiver, was designed for rugged use, easy installation and high performance in industrial, commercial, and in business environment for mission critical application. The device provides redundant paths for 10BaseT or 100BaseTX Ethernet systems. It has three ports: main, primary and secondary, all 10/100TX auto negotiating and MDI/MDIX. Typically, the main port connects to a critical 10BaseT or 100BaseTX Ethernet device. The primary port and the secondary ports connect to two different switch ports or two different ports on separate switches or servers or devices with Ethernet connection. When the unit powers up, it checks both primary port and secondary port for link signal. Once the link is established, it will hunt for data packets on both the ports by scanning each port. If data packets are present on both ports, it will opt for primary port. If the primary port

loses data packets and/or link signal, the path will be connected to secondary channel. Once the link is restored on the primary channel, the path will swing back to the primary channel. EFTS1025 has an important feature of being able to work in **fail safe mode** in the event of power failure to it. The data path will remain connected between main port and primary port through the **FailSafe ByPass** circuit. (The total cable length of both main and primary ports should not exceed 100m for this feature to be used.)

Features

- EFTS1025 reduces network downtime and enhances the level of redundancy.
- Adds reliability to the weakest link in the chain.
- Assurance of continuing communications in case of accident or wiring fault.
- Ensures connection even if a segment is damaged or sabotaged.
- Intelligent unit detects both loss of link pulse and loss of data.
- Hunts for data packets on both primary and secondary channel. Will switch over if link is present but no data packets.
- Provides fault tolerant links between critical paths.
- Ideal for mission critical applications.
- FailSafe ByPass circuit in the event of power failure. Main port will connect to primary port without power being present to the device.
- IEEE 802.3, IEEE 802.3u compliant.
- Auto MDI/MDIX Auto-sensing between uplink or direct connections each port.
- Plug and Play.
- Support Full/Half duplex transfer mode for 10 and 100Mbps.
- Full wire speed reception and transmission.
- Supports Auto-Negotiation for 10/100TX and duplex mode.
- Extensive diagnostic LEDs.
- Back pressure flow control for half-duplex.
- Compact size and easy to install.
- Rugged high strength steel casing.
- Supports use of redundant power supply. Two power supply jacks for redundant power supply.
- Available in 12Vdc & 24Vdc version.
- Designed & manufactured in the USA.



Specifications: EFTS1025 & EFTS1025-24V

Standards	IEEE 802.3, IEEE 802.3u
Protocol	CSMA/CD
Connectors	3 auto-negotiation 10/100 Mbps RJ-45 switching ports
Cable Requirements	Ethernet: 2-pair UTP Cat.3, 4, 5, up to 328ft/100m Fast Ethernet: 2-pair UTP Cat.5, up to 328ft/100m
Data Transfer Rate	Full/Half duplex transfer mode for 10/100Mbps
MAC Address	4K
MAC Address Learning	Self Learning, Auto Aging
Buffer Memory	256KB Per Device
Filtering & Address Table	8K entries per device
Packet Filtering/Forwarding Rate	Full Wire Speed
Diagnostic LEDs	Per Unit: Power, DC #1 & DC #2 Per Port: Speed (100Mbps) Link/Activity, Full Duplex
Dimensions	86.6 mm x 75.8 mm x 22.6 mm (L x W x H). Total width with wings: 105 mm
Power Adapter	12Vdc @ 1A
Power Consumption	5W Maximum
Temperature	Operating: 0 to 40 degrees Celsius. Storage: -10 to 70 degree Celsius.
Humidity	5 to 95% RH, Non-condensing
EMI & Safety	FCC A, CE



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