10/100BASE-TX Redundant Port Selector

Fault-Tolerant Redundant Media Converter

AUTO CROSS   AUTO = NEG

MIL-FT240TX

NEW

Features

▸ **Fault-tolerant redundant connections**

▸ **Easy to install and use**

▸ **Supports half and full-duplex transmission**

▸ **AutoCross™ on all 3 ports**   *see next page*

▸ **Auto-Negotiation**   *see next page*

▸ **IEEE 802.3 compliant**

▸ **Nine diagnostic LEDs**

▸ **Power supply available for international applications**

The MILAN by Transition FT240TX Redundant Port Selector is a 10/100 Ethernet fault-tolerant transceiver. It significantly reduces network downtime, adding a new level of redundancy to 10/100 Ethernet connections. It also provides a redundant path for critical 10/100 devices.In a 10/100 Ethernet network, a critical device such as a file server may be connected to the rest of the network through a hub or a switch. A common problem in this configuration is that the server is often connected to the network through a single cable. If the cable fails, then the server is disconnected from the rest of the network. Similarly, if a port of a hub or switch to which the server is connected fails, the server is disconnected from the network.

The FT240TX Redundant Transceiver has three ports: one for the critical (main) device, one for the default (primary) path for the critical device, and another (backup) for the backup path. It is a smart device that will not send any signal on a path that is not active. If the primary path loses its link, then the FT240TX will immediately (in less than one microsecond) switch to the backup path.

When the primary path re-establishes its link, the FT240 Redundant Port Selector will automatically switch back to the primary path.

Fault-Tolerant Redundant Connections

10/100BASE-TX Redundant Port Selector Transceiver

Server

Main

Primary

Backup

Switch

Switch
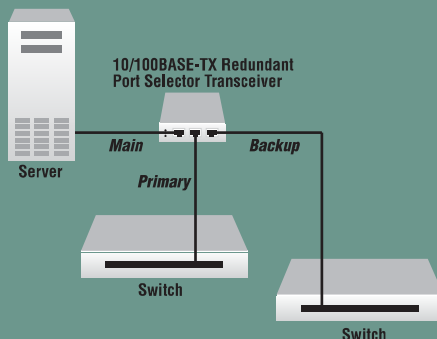
Ordering Info

MIL-FT240TX
10/100BASE-TX Port Selector Transceiver

(3) 10/100BASE-TX (RJ-45)
[100 m]

Specifications

Standards	IEEE Std. 802.3
RJ-45 Connectors	Type: 8-position, RJ-45 receptacle:

	1: TX+	5: NC (no connection)	
	2: TX-	6: RX-	
	3: RX+	7: NC (no connection)	
	4: NC (no connection)	8: NC (no connection)	

Dip Switches	**SW1:** Auto-Negotiation Enable/Disable **SW2:** 10/100Mbps **SW3:** Full/Half Duplex **SW4:** non-functioning
System LEDs	**PWR:** Indicates the presence of POWER **Primary:** Indicates a link is established on the Primary port **Backup:** Indicates the link has moved over to the Backup port.
Per Port LEDs	**Lower Right:** Green indicates 100Mbps; Orange indicates 10Mbps; Flashing indicates Activity **Lower Left:** Green indicates full-duplex; Off half-duplex
Dimensions	**Width:** 3.25" [82 mm] **Depth:** 4.8" [122 mm] **Height:** 1.0" [25 mm]
Power	**Domestic** Input: 120 VAC @ 60 Hz. Output: 12 VDC, 0.5 Amp **International** Input: 100 – 240 VAC @ 50 Hz. Output: 12 VDC, 1.25 Amp
Operating temperature	0 – 50°C (32°F – 122°F)
Storage temperature	-15°C – 65°C (-5°F – 149°F)
Relative humidity	5% – 95%
Altitude	0 – 10,000 ft.
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	**Wall Mount Power Supply:** UL Listed & CSA Certified
Regulatory Compliance	FCC Class A, EN55024, UL 60950, CE Mark
Warranty	Comprehensive 5 years

MILAN BY TRANSITION NETWORKS®

▸ Auto-Negotiation (802.3u)

Auto-Negotiation allows devices to perform automatic configuration to achieve the best possible mode of operation over a link. Devices with this feature will broadcast their speed (10Mbps, 100Mbps, etc.) and duplex (half/full) capabilities to other devices and negotiate the best mode of operation between the two devices.

- ▸ No user intervention required to determine best mode of operation
- ▸ Optimal link established automatically
- ▸ Quick and easy installation

While the inclusion of this feature is beneficial, the ability to disable it is equally beneficial. In the event of a non-negotiating end device trying to connect to a negotiating device, the mode of operation will drop to the least common denominator between the two devices (i.e. 100Mbps, half-duplex). Disabling this feature gives the user the ability to force the connection to the best mode of operation when trying to link with a non-negotiating device. Most Transition converters with Auto-Negotiation will allow you to disable this feature.

▸ AutoCross™

Automatically detects and configures the twisted pair port on the converter to the correct MDI or MDI-X configuration.

- ▸ Eliminates an entire category of troubleshooting
- ▸ No need to identify cable type—straight-through or crossover
- ▸ No user intervention required to determine correct button / switch settings

If someone tells you media conversion is a commodity product that anyone can bring to market, they probably haven't looked at the extensive product suite offered by Transition Networks. With the industry's most comprehensive offering of full-featured products, Transition's media converters stand out as "the choice" among industry IT professionals.

Generally, media converters are low-level OSI model devices with no IP or MAC addresses and therefore are transparent to the network. This "transparency" makes them very inexpensive and easy to use, but also can make troubleshooting the network very difficult. In an effort to overcome this difficulty and to make media converters "visible" to network managers, Transition has designed their full-featured products to include the most advanced features on the market today.