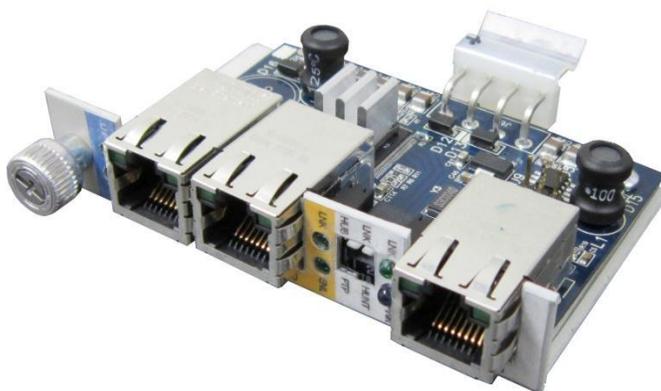


ERMGT350

GIGE FAULT TOLERANT TRANSCEIVER (RACK MOUNT)

User Manual/Datasheet



OVERVIEW

The ERMGT350 is a tri-speed fault tolerant transceiver that was designed for rugged use, easy installation and high performance. It is specially suited for mission critical applications in industrial, commercial, and business environments. The device provides redundant paths for 10/100/1000 Ethernet systems with full auto-negotiation and MDI/MDIX. The transceiver should be used with ERM21C, a 21 slot rack mount chassis.

FEATURES

- ▣ Intelligent logic detects both loss of link pulse and loss of data
- ▣ Automatically hunts for data packets on both redundant channels
- ▣ Optional support for link-only failures without hunting
- ▣ Supports Full/Half duplex modes for 10/100/1000Mbps
- ▣ MDI/MDIX auto-sensing between uplink or direct connections on each port
- ▣ Designed and manufactured in the U.S.A.

OPERATION

The device provides redundant paths for 10/100/1000 Ethernet systems. It contains three ports: main, primary, and secondary. Typically, the main port connects to a critical Ethernet device. The primary and secondary ports connect to two different network pathways and are the redundant ports. These pathways can include two switch ports on the same switch, two different ports on separate switches, or separate servers/devices with Ethernet connections.

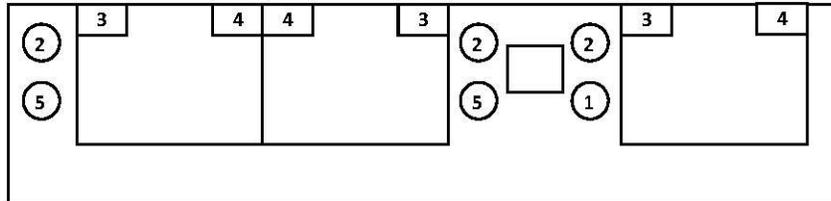
The unit can operate in either link-only or hunting mode. In link-only mode, the device will pick a redundant port that has a link. If both redundant ports have a link, it will select the primary port.

In hunting mode, the device will not only check for a link, but also hunt for data packets if there hasn't been any activity for a certain amount of time. The device monitors both ports simultaneously and if data packets are present on both ports, it will opt for primary port. Hunting mode ensures redundancy in the case of data transport failure.

LEDS

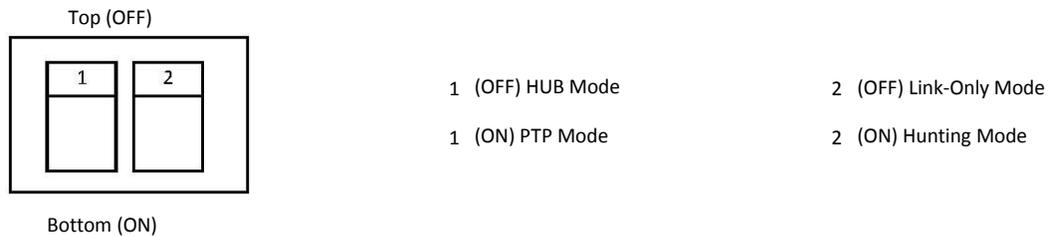
There are 12 LEDs, which are visible from the front panel of the device. The blue LED indicates that the device is receiving power. The diagram below explains the LED indicators.

- | | | | | | |
|---|----------------------|---|-------------|---|--------------|
| 1 | Power | 3 | 100TX | 5 | Enabled Port |
| 2 | Link/Activity/10Mbps | 4 | GigE/1000TX | | |



SWITCHES

There are two DIP switches located on the front of the device. The first switch allows the user to configure the device to operate with another EtherCom fault tolerant transceiver (Point-To-Point/PTP Mode), or with a regular networking device (HUB Mode). The second switch configures the device for link-only or hunting mode. The switch diagram is shown below.



SPECIFICATIONS

Standards	IEEE 802.3i, u, x, z, ab
Connectors	3 auto-negotiation 10/100/1000 Mbps RJ-45 switching ports
Data Transfer Rate	Full/Half duplex transfer mode for 10/100/1000Mbps
Dimensions	88.5mm x 71mm x 19mm
Diagnostic LEDs	Per Unit: Power, Active Port Per Port: Speed , Link/Activity
Power Consumption	3W Maximum
Temperature	Operating: -10 to 50 degrees Celsius. Storage: -20 to 70 degree Celsius.
Humidity	5 to 95% RH, Non-condensing
EMI & Safety	FCC A, CE

ORDERING INFORMATION

To order, please contact EtherCom at:

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