

User's Guide

CGETF10xx-1xx Slide-in-Module Media Converter

- Gigabit Ethernet
- Copper to Fiber
- 1000Base-T to 1000Base-SX/LX

Transition Networks CGETF10xx-1xx Gigabit Ethernet media converter connects 1000Base-T shielded or unshielded twisted-pair copper cable to 1000Base-SX or 1000Base-LX, fiber-optic cable. The CGETF10xx-1xx is designed to be installed in the Transition Networks *PointSystem*™ chassis.

| Part Number | Port One - Copper | Port Two - Duplex Fiber-Optic |
|---------------|-------------------------------------|---|
| CGETF1013-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-SX, 850 nm multimode 220 m (721 ft)* (62.5/125 μm cable) 550 m (1,804 ft)* (50/125 μm cable) |
| CGETF1014-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1310 nm single mode 10 km (6.2 miles)* |
| CGETF1015-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1310 nm single mode 25 km (15.5 miles)* |
| CGETF1017-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1550 nm single mode 65 km (40.4 miles)* |
| CGETF1024-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-SX, 1310 nm extended multimode, 2 km (1.2 miles)* Note: 62.5/125 μm (fiber only) |
| CGETF1035-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1550 nm single mode 125 km (77.5 miles)* |

*Typical maximum cable distance. Actual distance is dependent upon the physical characteristics of the network installation.

Note: The stand-alone version of the media converter is SGETF10xx-1xx. For more information, see the SGETF10xx-1xx user's guide on-line at: www.transition.com.

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| Part Number | Port One - Copper | Port Two - Single Fiber-Optic |
|--|-------------------------------------|--|
| CGETF1040-110 | RJ-45 1000Base-T 100 m (328 ft)* | SFP slots, see page 3 for SFP options. |
| CGETF1029-110 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1310 TX/1550 RX single mode, 20 km (12.4 miles)* |
| CGETF1029-111 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1550 TX/1310 RX single mode, 20 km (12.4 miles)* |
| The CGETF1029-110 and the CGETF1029-111 are to be installed in the same network, where one is the local converter and the other is the remote converter. | | |
| CGETF1029-112 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1310 TX/1550 RX single mode, 40 km (24.8 miles)* |
| CGETF1029-113 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1550 TX/1310 RX single mode, 40 km (24.8 miles)* |
| CGETF1029-116 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1510 TX/1590 RX single mode, 80 km (49.7 miles)* |
| CGETF1029-117 | RJ-45 1000Base-T 100 m (328 ft)* | SC, 1000Base-LX, 1590 TX/1510 RX single mode, 80 km (49.7 miles)* |
| The CGETF1029-112 and the CGETF1029-113 are to be installed in the same network, where one is the local converter and the other is the remote converter. | | |

DMI Models (-1xx)

The Diagnostic Monitoring Interface (DMI) models (*listed below*) allow diagnosing problems within the network. These devices have four functions:

- Transmit power
- Receive power
- Transmit bias current
- Temperature

Within each function, the device will send a trap; i.e., error whenever a high or low warning event, or high or low alarm event occurs (*for a total of 16 traps*).

In addition, if both the local and remote media converters are DMI models, the device will distinguish whether the trap event is from a local or a remote device.

| Part Number |
|---|
| CGETF1040-110 Port One - Copper 1000-Base-TX |
| RJ-45 100 m (328 ft) |

DMI Supported SFPs

Sold separately, the following DMI supported SFP transceiver modules for port two are compatible with the CGETF1040-1xx converter and are available from Transition Networks.

| CGETF1040-110 Port Two - Fiber-Optic 1000Base-SX/LX | |
|---|---|
| TN-SFP-SX | LC, 1000Base-SX, 850 nm multimode, 220-550 mm (720-1804 ft)* Without DMI |
| TN-SFP-SXD | LC, 1000Base-SX, 850 nm multimode, 220-550 mm (720-1804 ft)* |
| TN-SFP-LX1 | LC, 1000Base-LX, 1310 nm single mode, 10 km (6.2 miles)* |
| TN-SFP-LX3 | LC, 1000Base-LX, 1310 nm single mode, 30 km (18.8 miles)* |
| TN-SFP-LX5 | LC, 1000Base-LX, 1550 nm single mode, 50 km (31.2 miles)* |
| TN-SFP-LX8 | LC, 1000Base-LX, 1550 nm single mode, 80 km (50.0 miles)* |
| TN-SFP-LX12 | LC, 1000Base-LX, 1550 nm single mode, 120 km (74.6 miles)* |

*Typical maximum cable distance. Actual distance is dependent upon the physical characteristics of the network.



Note: Third-party Multi-Source Agreement (MSA) compliant Small Form Factor Pluggables (SFPs) can also be used in the CGETF1040-11x.

Installation

CAUTION: Wear a grounding device and observe electrostatic discharge precautions when setting the jumper, the 6-position switch, and installing the CGETF10xx-10x media converter into the *PointSystem™* chassis. Failure to observe this caution could result in damage to the media converter.

Set the 2-position jumper

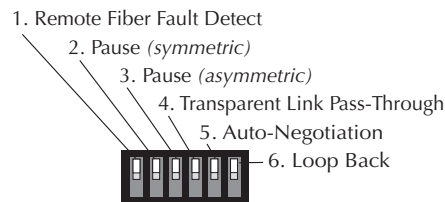
- The jumper is located on the media converter circuit board, connector J5.
- Use a small needle-nosed pliers or similar device to set the jumper.
- Refer to the illustration on the right for hardware/software jumper positioning.

| | | |
|----------|--|--|
| Hardware | The media converter's mode of operation is determined by the 6-position switch settings. Default is the Hardware position. | Hardware Mode H  S |
| Software | The media converter's mode of operation is determined by the most recently saved on-board microprocessor settings. | Software Mode H  S |

Set the 6-position switch

- The 6-position switch is located on the side of the media converter.
- Use a small flat-blade screwdriver to set the DIP switches.
- All switches are shown in the default position, UP.

Note: Switch positions S2 and S3 function together to configure the media converter for Pause conditions.



| | |
|------|-------------------------------|
| S1 | <u>Remote-Fault Detection</u> |
| up | Disabled |
| down | Enable |

S2 & S3 work in combination

| | |
|---------------------------------|--|
| <u>Pause</u> | |
| 10 sw position 2 up and 3 down: | Symmetric |
| 01 sw position 2 down and 3 up: | Asymmetric |
| 11 sw positions 2 and 3 up: | Pause is OFF (<i>default position</i>) |
| 00 sw positions 2 and 3 down: | Symmetric and Asymmetric |

| | |
|------|--------------------------------------|
| S4 | <u>Transparent Link Pass-Through</u> |
| up | Enable Link Pass-Through |
| down | Disable Link Pass-Through |

Installation -- Continued

Set the 6-position switch -- continued

| | |
|------|--|
| S5 | <u>Fiber Auto-Negotiation</u> |
| up | Disable Auto-Negotiation for the fiber link (<i>default setting</i>) |
| down | Enable Auto-Negotiation for the fiber link |
| S6 | <u>Loop Back</u> |
| up | Disable RX/TX signal loop back (<i>default setting</i>) |
| down | Enable RX/TX signal loop back |

Install Mode

During installation, set DIP switch 4 DOWN; leave all other switches in the UP position (*default*). This disables Transparent Link Pass-Through and Auto-Negotiation, allowing individual copper and fiber links to be established (*both copper port LEDs will turn ON with each device-to-device connection*) independent of having a complete end-to-end connection.

Operation Mode

After installation is complete (*all copper and fiber ports connected and linked*), set all switches to the UP position (*default*).

Remote Fiber Fault Detect

Remote fiber fault detect (RFD) monitors the status of the fiber link. Enable RFD in the remote converter only.

CAUTION: If RFD is enabled in the device at each end of the link, a link pass-through event will put the converters into an unrecoverable state (*unable to establish a link*).

Fiber Auto-Negotiation

Fiber Auto-Negotiation allows the fiber interface to detect and then advertise the supported features of the remote device—active only when a fiber cable is connected to a device with a negotiating port. The process is as follows:

- The fiber interface detects the supported features of the remote partner.
- These abilities are passed to the twisted-pair interface and advertised.
- Once the twisted-pair interface has a link at the highest common capability, it passes the result to the fiber interface.
- The fiber interfaces then start advertising these capabilities. At this point, the link between the fiber and the negotiating port is complete.

If the CGETF10xx-1xx is connected via fiber to another CGETF10xx-1xx, both media converters must have the Fiber Auto-Negotiation setting disabled (*switch 5 UP*).

Note: Transparent Link Pass-Through (*switch position 4 enabled*) cannot be turned OFF (*disabled*) when Fiber Auto-Negotiation is ON (*enabled*).

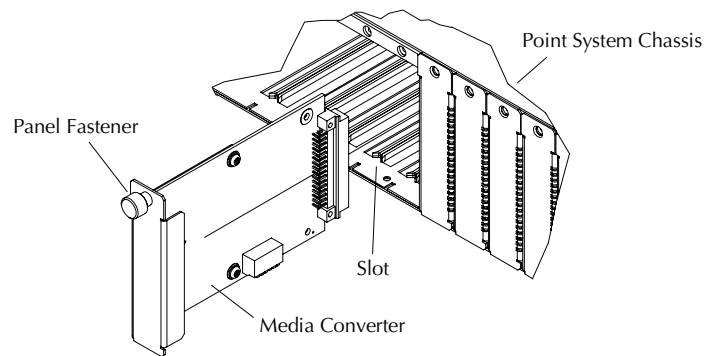
Installation -- Continued

Install the slide-in-module

IMPORTANT: Slots in the PointSystem™ chassis without a slide-in-module installed **MUST** have a protective plate covering the empty slot for Class A compliance.

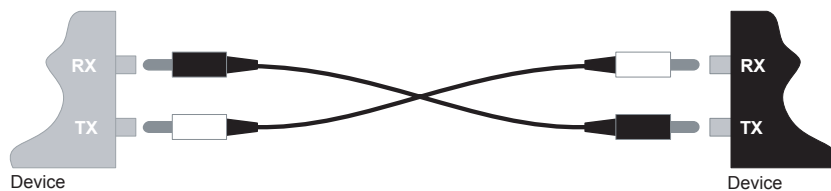
To install the CGETF10xx-1xx media converter slide-in-module:

1. Locate an empty slot on the *PointSystem™* chassis.
2. Carefully slide the slide-in-module into the slot, aligning it with the slot guides.
3. Ensure that the slide-in-module is firmly seated inside the chassis.
4. Push in and rotate the panel fastener screw shown below clockwise to secure the module to the chassis front.



Install the fiber cable

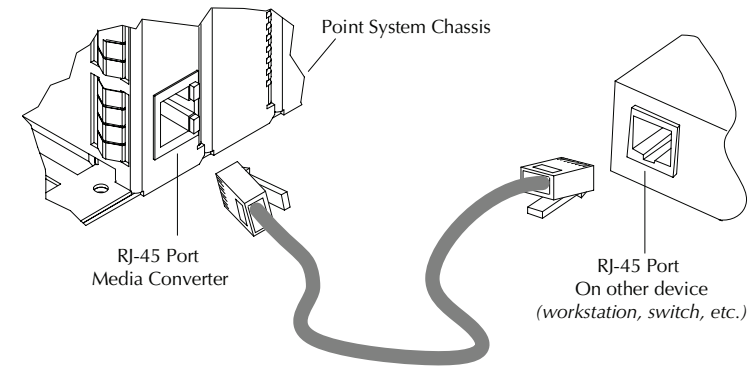
1. Locate a 1000Base-SX/LX compliant fiber cable with male, two-stranded TX to RX connectors installed at both ends.
2. Connect the fiber cable to the CGETF10xx-1xx media converter as described:
 - Connect the male TX cable connector to the female TX port.
 - Connect the male RX cable connector to the female RX port.
3. Connect the fiber cables to the other device (*another media converter, hub, etc.*) as described:
 - Connect the male TX cable connector to the female RX port.
 - Connect the male RX cable connector to the female TX port.



Installation -- Continued

Install the copper cable

1. Locate a 1000Base-T compliant copper cables with male, RJ-45 connectors installed at both ends.
2. Connect the RJ-45 connector at one end of the cable to the RJ-45 port on the CGETF10xx-1xx media converter.
3. Connect the RJ-45 connector at the other end of the cable to the RJ-45 port on the other device (*switch, workstation, etc.*).



Operation

Status LEDs

Use the status LEDs to monitor the CGETF10xx-1xx media converter operation in the network.

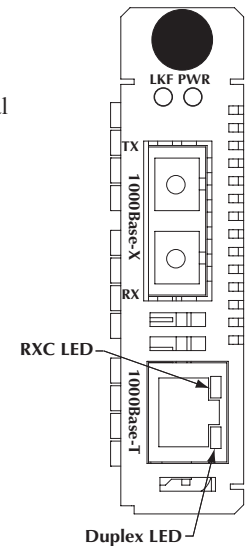
PWR (*Power*) ON = Connected to external AC power.

LKF (*Fiber link*) ON = Fiber Connection

RXC (*Copper receive*) Flashing = Receiving data on the copper link.

ON = Copper Link connection

Duplex ON = Full



Operation -- Continued

Remote-Fault Detect (RFD)

Remote-Fault Detect monitors the status of the fiber link. When enabled, remote fault detection turns off the converter's fiber transmission when the fiber receiver goes down. RFD should only be enabled in the remote converter; if enabled in both, a link pass-through event will cause an unrecoverable condition between the converters.

Pause

The pause feature can improve network performance by allowing one end of the link to signal the other to discontinue frame transmission for a set period of time to relieve buffer congestion.

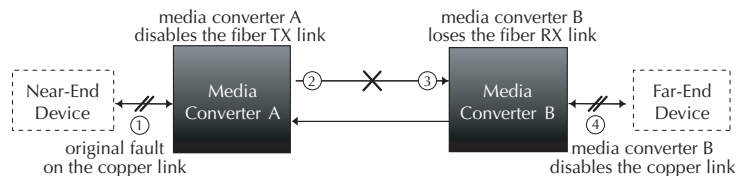
The pause feature can be set to one of four settings:

- Disable (*i.e.*, no pause)
- Symmetrical pause
- Asymmetric TX (*transmit*) pause
- Asymmetric RX (*receive*) pause

Enable the pause feature if it is present on ALL network devices attached to the media converter(s); otherwise, disable this feature.

Link Pass-Through

The Link Pass-Through feature allows the media converter to monitor both the fiber and copper RX (*receive*) ports for loss of signal. Refer to the illustration below. For example, in the event of a loss of an RX signal (1), the media converter will automatically disable the fiber TX (*transmit*) signal (2), thus, "passing through" the link loss (3). The far-end device is automatically notified of the link loss (4), which prevents the loss of valuable data unknowingly transmitted over an invalid link.



AutoCross (*always on*)

The AutoCross feature allows either straight-through (MDI) or crossover (MDI-X) cables to be used when connecting to 10Base-T, 100Base-TX, or 1000Base-T devices, such as hubs, transceivers, or network interface cards (NICs). AutoCross determines the characteristics of the cable connection and automatically configures the unit to link up to its companion device regardless of the cable configuration.

Operation -- Continued

Transparent Link Pass-Through

Transparent Link Pass-Through operates similar to Link Pass-Through with one exception: the fiber link between the converters remains active. A signal is passed through to the remote converter, causing it to shutdown the copper link, notifying the end device of the link failure.

Auto-Negotiation

Auto-Negotiation enables automatic configuration to achieve the best possible mode of operation over a link between devices. A device with this feature enabled will broadcast its speed (*10Mbps, 100Mbps, etc.*) and duplex (*half/full*) capabilities to another device with this feature, then negotiate the best mode of operation between them—no user intervention required.

Fiber Auto-Negotiation

Fiber Auto-Negotiation allows the fiber interface to detect and then advertise the support capabilities of the remote device. This only occurs when a fiber cable is connected to a device with a negotiating port.

Loop Back

This diagnostic feature enables the media converter to loop back the signal from the RX port to the TX port for testing and troubleshooting purposes. Test signals from a bit-error test unit can then be inserted into either the copper or fiber link to test a particular segment.

This type of diagnostic test can only be performed from the local to the remote device with loop back enabled on the remote device.

SNMP

Use SNMP at an attached terminal or at a remote location to monitor the media converter by monitoring:

- Copper and fiber link/receive status
- Hardware switch settings
- Receive error count

Also, use SNMP to enter network commands that:

- Enable/disable Remote Fault Fiber Detection
- Enable/disable Link Pass-Through
- Enable/disable Auto-Negotiation
- Symmetric pause
- Asymmetric TX (*transmit*) pause
- Asymmetric RX (*receive*) pause
- Disable pause

See the on-line documentation that comes with Transition Networks FocalPoint™ software for applicable commands and usage.

Diagnostic Monitoring Interface (DMI)

The following DMI port screen and explanation table contains brief definitions of the DMI support offered on Transition Networks SFP optical interfaces. For further information, please see the help option on the CPSMM-xxx SNMP agent or Focal Point GUI.

| | |
|---|---|
| DMI RX Power 210 μ W -6.778 dBm | DMI RX Power Alarm <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low Warn <input type="checkbox"/> High Warn <input type="checkbox"/> Low Alarm <input type="checkbox"/> High Alarm |
| DMI Temp 30.1 °C 86.2 °F | DMI Temp Alarm <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low Warn <input type="checkbox"/> High Warn <input type="checkbox"/> Low Alarm <input type="checkbox"/> High Alarm |
| DMI Bias Current 20 μ A | DMI Bias Alarm <input type="checkbox"/> Normal <input type="checkbox"/> Low Warn <input type="checkbox"/> High Warn <input type="checkbox"/> Low Alarm <input type="checkbox"/> High Alarm |
| DMI TX Power 0 μ W 0.000 dBm | DMI TX Power Alarm <input type="checkbox"/> Normal <input type="checkbox"/> Low Warn <input type="checkbox"/> High Warn <input checked="" type="checkbox"/> Low Alarm <input type="checkbox"/> High Alarm |
| Rx Power Intrusion Threshold 1000 μ W 0.000 dBm | <input checked="" type="checkbox"/> Intrusion Detected |

| Variable Name | Description |
|------------------------------|--|
| DMI Rx Power | Measured Receive optical power in microwatts and in decibels relative to 1mW. |
| DMI Rx Power Alarm | Alarm status of measured Receive optical power. |
| DMI Temp | Internally measured temperature of transceiver in degrees C and degrees F. |
| DMI Temp Alarm | Alarm status for internally measured temperature of transceiver. |
| DMI Bias Current | Measured transmit bias current in microamperes. |
| DMI Bias Alarm | Alarm status for measured transmit bias current for the interface. |
| DMI Tx Power | Measured transmit power, in microwatts and in decibels relative to 1mW.. |
| DMI Tx Power Alarm | Alarm status of measured transmit power. |
| Rx Power Intrusion Threshold | <p>Instructs the converter to stop passing traffic when the receive power drops below the new threshold. This feature is sometimes referred to as 'Intrusion Detection, since tapping into a fiber to intercept traffic leads to a reduction in receive power. This value can be entered in microwatts or in decibels relative to 1mW.</p> <p>Note: This feature is not available on all devices.</p> |

Cable Specifications

The physical characteristics must meet or exceed IEEE 802.3™ specifications.

Fiber cable

| | |
|---|-----------------------------------|
| Bit Error Rate: | <10-9 |
| Single mode fiber (<i>recommended</i>): | 9 μ m |
| Multimode fiber (<i>recommended</i>): | 62.5/125 μ m |
| Multimode fiber (<i>optional</i>): | 100/140, 85/140, 50/125 μ m |
| CGETF1013-110 | 850 nm multimode |
| Fiber Optic Transmitter Power: | min: -10.0 dBm max: -4.0 dBm |
| Fiber Optic Receiver Sensitivity: | min: -17.0 dBm max: 0.0 dBm |
| Link Budget: | 7.0 dB |
| CGETF1014-110 | 1310 nm single mode |
| Fiber-optic Transmitter Power: | min: -9.5 dBm max: -3.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -20.0 dBm max: -3.0 dBm |
| Link Budget: | 10.5 dB |
| CGETF1015-110 | 1310 nm single mode |
| Fiber-optic Transmitter Power: | min: -5.0 dBm max: -0.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -24.0 dBm max: -3.0 dBm |
| Link Budget: | 19.0 dB |
| CGETF1017-110 | 1550 nm single mode |
| Fiber-optic Transmitter Power: | min: -3.0 dBm max: 2.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -24.0 dBm max: -3.0 dBm |
| Link Budget: | 21.0 dB |
| CGETF1024-110 | 1300 nm extended multimode |
| Fiber-optic Transmitter Power: | min: -10.0 dBm max: -3.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -17.0 dBm max: -3.0 dBm |
| Link Budget: | 7.0 dB |
| CGETF1035-110 | 1550 nm single mode |
| Fiber-optic Transmitter Power: | min: 0.0 dBm max: 5.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -27.0 dBm max: -3.0 dBm |
| Link Budget: | 27.0 dB |
| CGETF1029-110 | 1310nm TX / 1550nm RX single mode |
| CGETF1029-111 | 1550nm TX / 1310nm RX single mode |
| Fiber-optic Transmitter Power: | min: -8.0 dBm max: -3.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -21.0 dBm max: -3.0 dBm |
| Link Budget: | 13.0 dB |

Cable Specifications -- Continued

Fiber cable - Continued

| | |
|-----------------------------------|-----------------------------------|
| CGETF1029-112 | 1310nm TX / 1550nm RX single mode |
| CGETF1029-113 | 1550nm TX / 1310nm RX single mode |
| Fiber-optic Transmitter Power: | min: -3.0 dBm max: +2.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -23.0 dBm max: -3.0 dBm |
| Link Budget: | 20.0 dB |
| CGETF1029-116 | 1510nm TX / 1590nm RX single mode |
| CGETF1029-117 | 1590nm TX / 1510nm RX single mode |
| Fiber-optic Transmitter Power: | min: -2.0 dBm max: +3.0 dBm |
| Fiber-optic Receiver Sensitivity: | min: -26.0 dBm max: -3.0 dBm |
| Link Budget: | 24.0 dB |

Copper cable (Category 5 -- minimum requirement)

- Gauge = 24 to 22 AWG; Attenuation = 22.0 dB /100m @ 100 MHz
- Straight-through OR crossover cable may be used.
- Shielded twisted-pair (STP) OR unshielded twisted-pair (UTP) may be used
- All pin pairs (1&2, 3&6, 4&5, 7&8) are active in a gigabit network.
- Use only dedicated wire pairs for the active pins; e.g., blue/white & white/blue, orange/white & white/orange, etc.
- Do not use flat or silver satin wire.

Technical Specifications

For Transition Networks' Model CGETF10xx-1xx or equivalent

| | |
|--------------------|---|
| Standards: | IEEE 802.3ab™, IEEE 802.3 2000 |
| Data Rate / Delay: | 1000 Mbs/300 nsec |
| Dimensions: | 3.4" x 1.0" x 5.0" (86mm x 25mm x 127mm) |
| Weight: | 3 oz. (91 g) approximately |
| Power Consumption: | 5.4W 450mA @ 12VDC |
| Packet Size: | 10 Kbytes (maximum) |
| MTBF* | 381,000 hours (MIL217F2 V5.0) (MIL-HDBK-217F) 1,344,000 hours (Bellcore7 V5.0) |
| Operating Temp: | Tmar** 0°C to 50°C (32°F to 122°F) |
| Storage Temp: | -15°C to 65°C (5°F to 149°F) |
| Humidity: | 10% to 90%, non condensing |
| Altitude: | 0 to 10,000 feet |
| Warranty: | Lifetime |

*MTBF is estimated using the predictability method. This method is based on MIL-217F at 25°C ambient temperature, typical enclosure heat rise of 10°C, and nominal operating conditions and parameters. Installation and configuration specific MTBF estimates are available upon request. Contact Technical Support.

**Manufacturer's rated ambient temperature.

For the most up-to-date information on the CGETF10xx-1xx media converter, view the user's guide on-line at: www.transition.com.

The fiber optic transmitters on this device meet Class I Laser safety requirements per IEC-825/CDRH standards and comply with 21 CFR1040.10 and 21CFR1040.11.

WARNING: Visible and invisible laser radiation when open. Do not stare into the beam or view the beam directly with optical instruments. Failure to observe this warning could result in an eye injury or blindness.

WARNING: Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

IMPORTANT: Copper based media ports, e.g., Twisted Pair (TP) Ethernet, USB, RS232, RS422, RS485, DS1, DS3, Video Coax, etc., are intended to be connected to intra-building (*inside plant*) link segments that are not subject to lightning transients or power faults. Copper-based media ports, e.g., Twisted Pair (TP) Ethernet, USB, RS232, RS422, RS485, DS1, DS3, Video Coax, etc., are NOT to be connected to inter-building (*outside plant*) link segments that are subject to lightning transients or power faults.

Troubleshooting

If the media converter fails, isolate and correct the fault by determining the answers to the following questions and then taking the indicated action:

1. Is the PWR (*power*) LED illuminated?
 - NO
 - Is the media converter inserted properly into the chassis?
 - Is the power cord installed properly in the chassis and at the external power source and does the external power source provide power?
 - Contact Tech Support: 1-800-260-1312, Int'l: 00-1-952-941-7600.
 - YES
 - Proceed to step 2.
2. Is the RXC (*copper link*) LED illuminated?
 - NO
 - Check the twisted-pair copper cables for proper connection.
 - Contact Tech Support: 1-800-260-1312, Int'l: 00-1-952-941-7600.
 - YES
 - Proceed to step 3.
3. Is the LKF (*fiber link*) LED illuminated?
 - NO
 - Check the fiber cables for proper connection.
 - Verify that the TX and RX cables on the media converter are connected to the RX and TX ports, respectively, on the other device.
 - If the converter is connected to another xGETF10xx-11x via fiber, make sure that the Auto-Negotiation (*DIP switch 5*) is disabled (UP) in hardware mode, or disabled via software in software mode.
 - Contact Tech Support: 1-800-260-1312, Int'l: 00-1-952-941-7600.
 - YES
 - Proceed to step 4.
4. Is the RXC (*copper receive*) LED flashing?
 - NO
 - If there is activity on the 1000Base-T port, disconnect and reconnect the twisted-pair copper cable to restart the initialization process.
 - Restart the workstation to restart the initialization process.
 - Contact Tech Support: 1-800-260-1312, Int'l: 00-1-952-941-7600.
 - YES
 - Contact Tech Support: 1-800-260-1312, Int'l: 00-1-952-941-7600.

Contact Us

Technical support

Technical support is available 24-hours a day
 US and Canada: 1-800-260-1312
 International: 00-1-952-941-7600

Transition now

Chat live via the Web with Transition Networks Technical Support.
 Log onto www.transition.com and click the Transition Now link.

Web-based seminars



Transition Networks provides seminars via live web-based training.
 Log onto www.transition.com and click the Learning Center link.

E-Mail

Ask a question anytime by sending an e-mail to our technical support staff.
techsupport@transition.com

Address

Transition Networks
 10900 Red Circle Drive
 Minnetonka, MN 55343, U.S.A.
 telephone: 952-941-7600
 toll free: 800-526-9267
 fax: 952-941-2322

| | |
|---|--|
|  | Declaration of Conformity |
| Name of Mfg: | Transition Networks 10900 City West Parkway, Minnetonka MN 55343 U.S.A. |
| Model: | CGETF10xx-1xx Series Media Converters |
| Part Number(s): | CGETF1013-110, CGETF1014-110, CGETF1015-110, CGETF1017-110, CGETF1018-110, CGETF1024-110, CGETF1035-110, CGETF1040-110, CGETF1029-110, CGETF1029-111, CGETF1029-112, CGETF1029-113, CGETF1029-116, CGETF1029-117 |
| Regulation: | EMC Directive 89/336/EEC |
| Purpose: | To declare that the CGETF10xx-1xx to which this declaration refers is in conformity with the following standards: EN 55022:1994 + A1:1995 + A1:1997; EN 55024:1998 + A1:2001 + A2:2003 |
| I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s). | |
|  | June, 2008 |
| Stephen Anderson, Vice-President of Engineering | Date |

Compliance Information

CE Mark

FCC regulations

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

Canadian regulations

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

European regulations

Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Achtung !

Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten. In diesem Fall ist der Benutzer für Gegenmaßnahmen verantwortlich.

Attention !

Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.



In accordance with European Union Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, Transition Networks will accept post usage returns of this product for proper disposal. The contact information for this activity can be found in the 'Contact Us' portion of this document.



CAUTION: RJ connectors are NOT INTENDED FOR CONNECTION TO THE PUBLIC TELEPHONE NETWORK. Failure to observe this caution could result in damage to the public telephone network.

Der Anschluss dieses Gerätes an ein öffentliches Telekommunikationsnetz in den EG-Mitgliedstaaten verstößt gegen die jeweiligen einzelstaatlichen Gesetze zur Anwendung der Richtlinie 91/263/EWG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Telekommunikationsendeinrichtungen einschliesslich der gegenseitigen Anerkennung ihrer Konformität.

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