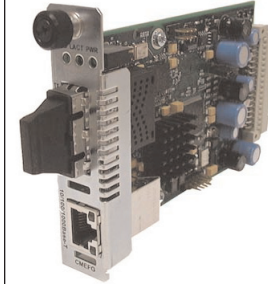


**CMEFG10xx-1xx
(local)**



Transition Networks CMEFG10xx-1xx and SMEFG10xx-1xx series gigabit Ethernet media converters connect 10/100/1000Base-T shielded or unshielded twisted-pair copper cable to 1000Base-SX/LX fiber-optic cable.

The media converters are designed to be installed in pairs where the CMEFG10xx-1xx is the local media converter and the SMEFG10xx-1xx is the remote media converter.

User's Guide

CMEFG10xx-1xx - Slide-in-Module
SMEFG10xx-1xx - Stand-Alone
Media Converters

- **Copper to Fiber Gigabit Ethernet**
- **10/100/1000Base-T to 1000Base-SX/LX**

**SMEFG10xx-1xx
(remote)**



Remote management

The CMEFG10xx-1xx (*chassis version*) is designed to remotely manage the SMEFG10xx-1xx (*the stand-alone version*) or another CMEFG10xx-1xx per IEEE 802.3ah™:2004 standard.

For example, a local CMEFG1011-100 converter installed in a managed Transition Networks PointSystem™ chassis is connected, via fiber, to a remote SMEFG1011-100 converter.

Network management

The SNMP section lists commands for monitoring and managing a networked media converter at a remote location. The CMEFG10xx-2xx and SMEFG10xx-2xx devices are supported by 050xxxxx and later revisions of the management agent. Please download the latest management firmware at www.transition.com.

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Standard Models (-10x)

The standard models (*listed below*) perform as described in the user's guide with one exception: These models do not include DMI functionality.

Part Number	Port 1 - Copper 10/100/1000Base-T	Port 2 - Duplex Fiber-Optic
CMEFG1013-100 SMEFG1013-100	RJ-45 100m (328 ft)	SC, 1000Base-SX, 850 nm multimode 220 m (720 ft)
CMEFG1014-100 SMEFG1014-100	RJ-45 100m (328 ft)	SC, 1000Base-LX, 1310 nm Single Mode 10 km (6.2 miles)
CMEFG1015-100 SMEFG1015-100	RJ-45 100m (328 ft)	SC, 1000Base-LX, 1310 nm single mode 25 km (15.5 miles)
CMEFG1017-100 SMEFG1017-100	RJ-45 100m (328 ft)	SC, 1000Base-LX, 1550 nm single mode 65 km (40.4 miles)
CMEFG1035-100 SMEFG1035-100	RJ-45 100m (328 ft)	SC, 1000Base-LX, 1550 nm single mode 125 km (77.6 miles)

The standard models also include single mode, single fiber models (*listed below*.)

Part Number	Port 1 - Copper 10/100/1000Base-T	Port 2 - Single Fiber-Optic 1000Base-BX-U/D, single mode
CMEFG1029-100 SMEFG1029-100	RJ-45 100m (328 ft)	SC, 1310 nm (TX) / 1490 nm (RX) 20 km (12.4 miles)
CMEFG1029-101 SMEFG1029-101	RJ-45, 100m (328 ft)	SC, 1490 nm (TX) / 1310 nm (RX) 20 km (12.4 miles)
Install a CMEFG1029-100 (<i>local</i>) with a SMEFG1029-101 (<i>remote</i>). Or install a CMEFG1029-101 (<i>local</i>) with a SMEFG1029-100 (<i>remote</i>).		
CMEFG1029-102 SMEFG1029-102	RJ-45 100m (328 ft)	SC, 1310 nm (TX) / 1490 nm (RX) 40 km (24.9 miles)
CMEFG1029-103 SMEFG1029-103	RJ-45 100m (328 ft)	SC, 1490 nm (TX) / 1310 nm (RX) 40 km (24.9 miles)
Install a CMEFG1029-102 (<i>local</i>) with a SMEFG1029-103 (<i>remote</i>). Or install a CMEFG1029-103 (<i>local</i>) with a SMEFG1029-102 (<i>remote</i>).		

TX = transmit, RX = receive

Note: The distances listed are the typical maximum cable distance. Actual distance is dependent upon the physical characteristics of the network.

DMI Models (-11x)

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 a 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	Port 1 - Copper 10/100/1000Base-T	Port 2 - Duplex Fiber-Optic
CMEFG1013-110 SMEFG1013-110	RJ-45 100m (328 ft)	SC, 1000Base-SX, 850 nm multimode 220 m (720 ft)
CMEFG1014-110 SMEFG1014-110	RJ-45 100m (328 ft)	SC, 1000Base-LX-10, 1310 nm singlemode 10 km (6.2 miles)
CMEFG1015-110 SMEFG1015-110	RJ-45 100m (328 ft)	SC, 1000Base-LX, 1310 nm single mode 25 km (15.5 miles)

The DMI models also include single mode, single fiber models listed below.

Part Number	Port 1 - Copper 10/100/1000Base-T	Port 2 - Single Fiber-Optic 1000Base-BX-U/D, single mode
CMEFG1029-110 SMEFG1029-110	RJ-45 100m (328 ft)	SC, 1310 nm (TX) / 1490 nm (RX) 20 km (12.4 miles)
CMEFG1029-111 SMEFG1029-111	RJ-45, 100m (328 ft)	SC, 1490 nm (TX) / 1310 nm (RX) 20 km (12.4 miles)
Install a CMEFG1029-110 (<i>local</i>) with a SMEFG1029-111 (<i>remote</i>). Or install a CMEFG1029-111 (<i>local</i>) with a SMEFG1029-110 (<i>remote</i>).		
CMEFG1029-112 SMEFG1029-112	RJ-45 100m (328 ft)	SC, 1310 nm (TX) / 1490 nm (RX) 40 km (24.9 miles)
CMEFG1029-113 SMEFG1029-113	RJ-45 100m (328 ft)	SC, 1490 nm (TX) / 1310 nm (RX) 40 km (24.9 miles)
Install a CMEFG1029-112 (<i>local</i>) with a SMEFG1029-113 (<i>remote</i>). Or install a CMEFG1029-113 (<i>local</i>) with a SMEFG1029-112 (<i>remote</i>).		

TX = transmit, RX = receive

Note: The distances listed are the typical maximum cable distance. Actual distance is dependent upon the physical characteristics of the network.

