

### Features

- Family of fiber models provides media (multi-mode and single-mode; transparent half-duplex and full-duplex) flexibility in installation and operations.
- Install easily - simply attach cable segments to appropriate connectors on converter. An up-link switch on the RJ-45 port is included
- TB14 BNC model provides an internal BNC termination switch, and operates with collision detection and indication
- Provide diagnostic and network status information at a glance through a full set of LEDs
- Rack-mount tray option (MC14-TRAY) available



Small physical size, rugged packaging, ease-of-use features, energy-efficiency, and low cost are the primary characteristics of the Magnum™ 10Mb TF14-series and TB14 Media Converters. Models are available for RJ-45 to fiber (all types) or RJ-45 to BNC media combinations, offering a graceful way to convert and transmit data between twisted pair and fiber or thin coaxial network cables for media flexibility in new or expanded 10Mb Ethernet networks.

They cost significantly less than full repeaters and can be used whenever media distance limitations are not restrictive. The TF14 fiber models provide transparent half-and full-duplex operating mode. The TB14 BNC model provides standard collision detection and indication. All units are compatible with Ethernet V1.0 / 2.0 specifications and comply with IEEE 802.3 standards.

Magnum TF14 and TB14 Media Converters are designed for quick and easy installation even in very tight spaces. An up-link switch on the RJ-45 port provides manual crossover selection. The compact units, which are about the same size as traditional mini-transceivers, can be mounted securely on a closet wall or the side of cabinet, or by using the metal mounting clips included. A rack-mount tray option is available, for up to 16 units.

Magnum TF14 and TB14 Media converters are designed to provide low-temperature operation over an extended period to make them some of the most reliable in the industry. Their high-strength fabricated metal packaging shields against Radio Frequency Interference (RFI) and Electromagnetic Interference (EMI). Like all Magnum Ethernet connectivity products, they are designed and manufactured in the USA and are backed by a three year warranty.

### PERFORMANCE:

Data Rate: 10Mbps  
TF14: Operates transparently in half- or full-duplex mode.

### NETWORK STANDARDS:

Ethernet: IEEE 802.3u, 100BASE-TX, FX; IEEE 802.3, 10BASE-T  
10BASE-T, 10BASE-FL, 10BASE2

### OPERATING ENVIRONMENT:

Ambient Temperature:  
TF14: 32° to 120°F (0° to 50°C)  
TB14: 32° to 104°F (0° to 40°C)  
Storage: -20°C to 60°C  
Ambient Relative Humidity: 10% - 95% (non-condensing)

### PACKAGING:

Enclosure: Rugged sheet metal (steel)  
Dimensions of units: 2.13" x 3.0" x 0.8"  
(5.3 cm D x 7.6 cm W x 2.0 cm H)  
Weight:  
Media Converter Units: 4.6 oz (130g)  
Power Supply, TF14: 5.8 oz (165g)  
Power Supply, TB14: 10 oz (285g)  
Cooling Method: Convection

Rack-mount option: Model MC14-TRAY. Depth: 6.0", Width  
17", Height: 2.25" (15 cm D x 43 cm W x 5.7 cm H)

### CONNECTORS:

RJ-45 Port: Shielded 8-Pin female, with up-link switch  
Fiber Ports: 10BASE-FL ST-type, multi-mode or single-mode.  
BNC Port: Standard BNC connector, RG-58 ThinNet, with manual  
internal termination switch

### POWER SUPPLY (EXTERNAL):

Power Input Voltage: 95-125 vac at 60 Hz for "-d" models,  
200-250 vac at 50 Hz for "-i" models that have IEC power  
cable connector in the external power unit. Six foot DC  
power cable.  
(Note: an optional -48VDC or 24VDC external power unit  
is available)  
TF14: 9volts DC, power consumption: 2 watts typical, 3  
watts max.  
TB14: 12volts DC, power consumption: 4 watts typical, 6  
watts max.

### LED INDICATORS:

PWR: Steady on when power applied  
LINK: Steady on when attached TP or fiber cable segment  
is operational. (For fiber Link-Pass-through models, either  
both LINK LEDs are lit or neither is lit).  
RX: Indicates activity, port is receiving data  
POL: (TB14 only) Indicates TP receive wire-pair signal in-  
version (polarity).  
COL: (TB14 only) Indicates unit detects simultaneous data  
transmit and receive  
JAB: (TB14 only) indicates jabber (illegal packet length  
fault) condition. When lit, the port is partitioned.

### AGENCY APPROVALS:

UL Listed (UL 1950), cUL, CE Certified  
Emissions: Meets FCC Part 15 Class A, CE

### WARRANTY:

Three years

Made in USA

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*MC14-TRAY illustrated with  
a variety of TF14 and TB14  
Media Converters*

## Ordering Information

Magnum TF14-d,i	Twisted pair to Fiber multi-mode ST-type Media Converter
Magnum TF14s-d,i	Twisted pair to Fiber single-mode ST-type Media Converter
Magnum TF14-LP-d,i	Twisted pair to Fiber multi-mode ST-type Media Converter with Link Pass-through option
Magnum TB14-d,i	Twisted pair to BNC ThinNet Media Converter

Use -d with the model number to specify external power supply at 115vac 60Hz, use -i to indicate 230vac 50Hz.

MC14-TRAY	Rack-mount tray, holds up to 16 units of the TF14 and TB14 models, and the 100Mb 14E series Magnum Media Converters mix and match
MC14-TR+PS9	Rack-mount tray, supports up to 10 units of the 100Mb 14E, and the 10Mb 14-series Magnum Media Converters, mix and match. Includes the power supply unit and connectors to power up to 10 Media Converters at 9vdc as required. Auto-ranging AC input to the power supply.



**GarrettCom, Inc.**  
213 Hammond Ave.  
Fremont, CA 94539  
PH: (510) 438-9071  
FAX (510) 438-9072  
Email: [mktg@garrettcom.com](mailto:mktg@garrettcom.com)  
Web: [www.GarrettCom.com](http://www.GarrettCom.com)