

August 2006

LMC009A-R4

Compact Media Converter TP/BNC 50 Ohm



Federal Communication Commission Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B computing 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 the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

The use of non-shielded I/O cables may not guarantee compliance with FCC RFI limits. This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique publié par le ministère des Communications du Canada. European Directive 2002/96/EC (WEEE) requires that any equipment that bears this symbol on product or packaging must not be disposed of with unsorted municipal waste. This symbol indicates that the equipment should be disposed of separately from regular household waste. It is the consumer's responsibility to dispose of this and all equipment so marked through designated collection facilities appointed by government or local authorities. Following these steps through proper disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about proper disposal, please contact local authorities, waste disposal services, or the point of purchase for this equipment.



Specifications

Environmental

Operating Temperature: 32° - 104° F (0° - 40° C)
Storage Temperature: 0° - 160° F (-20° - 70° C)
Humidity: 5 - 90% non-condensing, 0 – 10,000 ft. altitude

Power

AC Input Load: 100/240V±10% ~ 50/60 Hz, 0.1/0.05A

Dimensions

1.64”H x 4.75”W x 4.54”D (4.17cm x 12.07cm x 11.53cm)

Shipping weight: 1.3 lbs. (0.6 kg)

Black Box Customer Service

Order toll-free in the U.S.: Call 877-877-BBOX
(outside U.S. call 724-746-5500)
FREE technical support, 24 hours a day, 7 days a week
Call: 724-746-5500 or **Fax:** 724-746-0746
Mail order: Black Box Corporation
1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com
E-mail: info@blackbox.com

Warranty

Contact Black Box for warranty information.

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About the Compact Media Converter TP/BNC 50 Ohm

With the Compact Media Converter TP/BNC, 50 coax cable installations become more accessible.

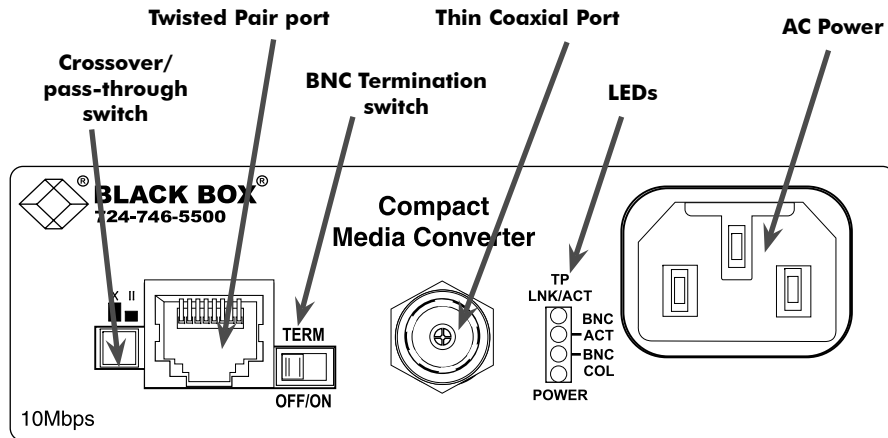
The Compact Media Converter TP/BNC is a 10 Mbps Ethernet Twisted Pair to 50Ω Coax cable (e.g. RG-59) Media Converter, that allows the continued use of the already-installed 50Ω analog cable, eliminating the need to re-cable. As a low-cost, IEEE 802.3 single-conversion, 1U high, standalone media converter, the Compact Media Converter TP/BNC converts 10Base-T twisted pair to 10Base-2 thin coax and includes one RJ-45 connector and one RG-59 BNC connector. Each Compact Media Converter TP/BNC includes diagnostic LEDs and an internal 100/240 VAC power supply.

Compact Media Converter TP/BNC 50 Ohm Front Panel

The LEDs

Each Compact Media Converter TP/BNC features diagnostic LEDs. The following illustration shows the location of the LEDs, and other features, on the Compact Media Converter TP/BNC. The LED functions for the Compact Media Converter TP/BNC are as follows:

- TP LNK/ACT** Glows yellow when a twisted pair link is established and flickers when data is being received..
- BNC ACT** Flickers green in normal operation indicating activity on the BNC port.
- BNC COL** Flickers red in normal operation indicating collisions are being detected on the BNC segment.
- POWER** Flickers yellow when the unit is receiving power.



Twisted Pair Crossover/Pass-Through Switch

The twisted pair port on the Compact Media Converter TP/BNC features a push-button switch, located next to the twisted pair connector, for selecting a crossover workstation connection or pass-through repeater/hub connection.

Select a pass-through connection by pressing the push-button **IN**. A crossover connection is selected when the push-button is **OUT**. If uncertain whether a crossover or pass-through connection is needed, set the push-button to the position that makes the TP LNK (link) LED glow.

BNC Port Termination

The Compact Media Converter TP/BNC features a 2-position, termination switch (TERM) next to the BNC connector that allows a thin coaxial segment to be terminated at the port without the use of an external 'T' connector/terminator. (See the diagram in the *Compact Media Converter TP/BNC 50 Ohm Front Panel* section.)

If a 'T' connector/terminator is used, this switch must be set in the OFF (disabled) position. Otherwise, double termination will result, which will corrupt the signal.

Installing the Compact Media Converter TP/BNC 50 Ohm

The Compact Media Converter TP/BNC converters come ready to install. Deploy Compact Media Converter TP/BNC units in pairs, or connect a Compact Media Converter TP/BNC converter to another Black Box converter. To install a Compact Media Converter TP/BNC converter, first make sure that the unit is placed on a flat surface. Attach the cables between the Compact Media Converter TP/BNC and each device that will be interconnected, then plug the unit into a reliable, filtered power source. Make sure to connect the BNC port of the Compact Media Converter TP/BNC converter only to 50Ω coaxial cable.

When connecting an Ethernet cable to the Compact Media Converter TP/BNC, make sure the cable corresponds to the crossover/pass-through switch. When using a crossover cable, make sure the switch is out, in the "X" setting. The switch can be pressed again to change the setting.