



McBasic TP/BNC

Operation Manual



Notes:

Table of Contents

About the McBasic TP/BNC1
McBasic TP/BNC Front Panel1
Twisted Pair Crossover/Pass-Through Switch2
BNC Port Termination2
Installing the McBasic TP/BNC3
Specifications4
IMC Networks Technical Support4
Warranty5
Federal Communications Commission
Radio Frequency Interference Statement6
Safety Certifications6

About the McBasic TP/BNC

With the McBasic TP/BNC, 50 coax cable installations become more accessible.

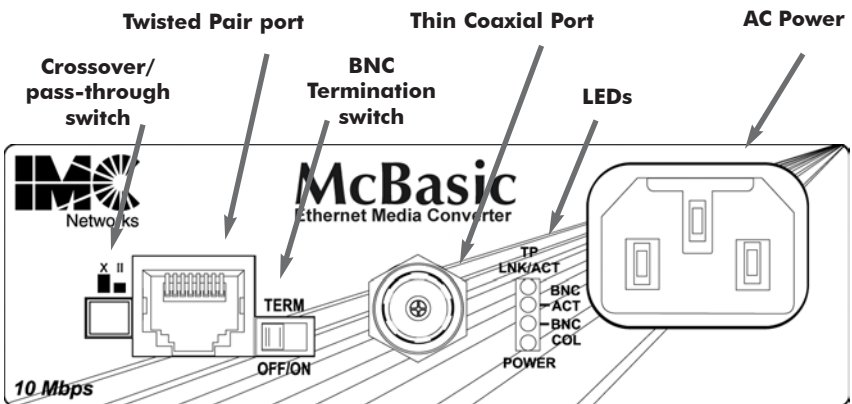
The McBasic TP/BNC is a 10 Mbps Ethernet Twisted Pair to 50Ω Coax cable (e.g. RG-59) Media Converter, that allows the continued use of the already-installed 50Ω analog cable, eliminating the need to re-cable. As a low-cost, IEEE 802.3 single-conversion, 1U high, standalone media converter, the McBasic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

McBasic TP/BNC Front Panel

The LEDs

Each McBasic TP/BNC features diagnostic LEDs. The following illustration shows the location of the LEDs, and other features, on the McBasic TP/BNC. The LED functions for the McBasic 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 McBasic 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 McBasic 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 *McBasic TP/BNC 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 McBasic TP/BNC

The McBasic TP/BNC converters come ready to install. Deploy McBasic TP/BNC units in pairs, or connect a McBasic TP/BNC converter to another IMC Networks converter. To install a McBasic TP/BNC converter, first make sure that the unit is placed on a flat surface. Attach the cables between the McBasic 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 McBasic TP/BNC converter only to 50 Ω coaxial cable.

When connecting an Ethernet cable to the McBasic 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.

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)

IMC Networks Technical Support

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Web site: www.imcnetworks.com

Warranty

IMC Networks warrants to the original end-user purchaser that this product, EXCLUSIVE OF SOFTWARE, shall be free from defects in materials and workmanship under normal and proper use in accordance with IMC Networks' instructions and directions for a period of six years after the original date of purchase. This warranty is subject to the limitations set forth below.

At its option, IMC Networks will repair or replace at no charge the product which proves to be defective within such warranty period. This limited warranty shall not apply if the IMC Networks product has been damaged by unreasonable use, accident, negligence, service or modification by anyone other than an authorized IMC Networks Service Technician or by any other causes unrelated to defective materials or workmanship. Any replaced or repaired products or parts carry a ninety day warranty or the remainder of the initial warranty period, whichever is longer.

To receive in-warranty service, the defective product must be received at IMC Networks no later than the end of the warranty period. The product must be accompanied by proof of purchase, satisfactory to IMC Networks, denoting product serial number and purchase date, a written description of the defect and a Return Merchandise Authorization (RMA) number issued by IMC Networks. No products will be accepted by IMC Networks which do not have an RMA number. For an RMA number, contact IMC Networks at PHONE: (800) 624-1070 (in the U.S and Canada) or (949) 465-3000 or FAX: (949) 465-3020. The end-user shall return the defective product to IMC Networks, freight, customs and handling charges prepaid. End-user agrees to accept all liability for loss of or damages to the returned product during shipment. IMC Networks shall repair or replace the returned product, at its option, and return the repaired or new product to the end-user, freight prepaid, via method to be determined by IMC Networks.

IMC Networks shall not be liable for any costs of procurement of substitute goods, loss of profits, or any incidental, consequential, and/or special damages of any kind resulting from a breach of any applicable express or implied warranty, breach of any obligation arising from breach of warranty, or otherwise with respect to the manufacture and sale of any IMC Networks product, whether or not IMC Networks has been advised of the possibility of such loss or damage.

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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.

Safety Certifications

UL/CUL: Listed to Safety of Information Technology Equipment, Including Electrical Business Equipment.

CE: The products described herein comply with the Council Directive on Electromagnetic Compatibility (89/336/EEC) and the Council Directive on Electrical Equipment Designed for use within Certain Voltage Limits (73/23/EEC). Certified to Safety of Information Technology Equipment, Including Electrical Business Equipment. For further details, contact IMC Networks.



Class 1 Laser product, Luokan 1 Laserlaite,
Laser Klasse 1, Appareil A' Laser de Classe 1

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.



Notes:



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*If the product's part number begins with an "8", it is compliant with the
Restriction of Hazardous Substances (RoHS) directive.*
