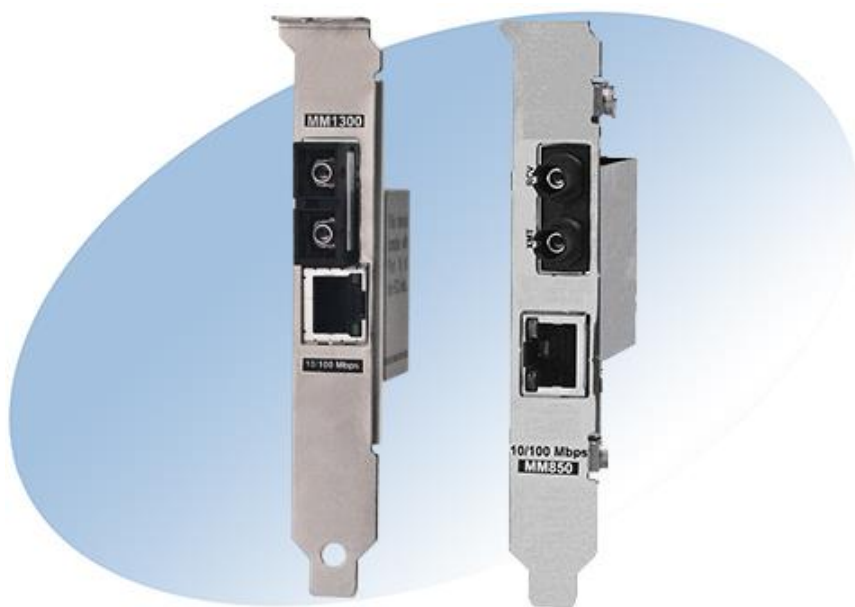


McPC MediaLinX (ISA & PCI Version)

Operation Manual



FCC 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.

Limited Lifetime Warranty

Effective for products of B&B Electronics shipped on or after May 1, 2013, B&B Electronics warrants that each such product shall be free from defects in material and workmanship for its lifetime. This limited lifetime warranty is applicable solely to the original user and is not transferable.

This warranty is expressly conditioned upon proper storage, installation, connection, operation and maintenance of products in accordance with their written specifications.

Pursuant to the warranty, within the warranty period, B&B Electronics, at its option will:

1. Replace the product with a functional equivalent;
2. Repair the product; or
3. Provide a partial refund of purchase price based on a depreciated value.

Products of other manufacturers sold by B&B Electronics are not subject to any warranty or indemnity offered by B&B Electronics, but may be subject to the warranties of the other manufacturers.

Notwithstanding the foregoing, under no circumstances shall B&B Electronics have any warranty obligations or any other liability for: (i) any defects resulting from wear and tear, accident, improper use by the buyer or use by any third party except in accordance with the written instructions or advice of the B&B Electronics or the manufacturer of the products, including without limitation surge and overvoltage conditions that exceed specified ratings, (ii) any products which have been adjusted, modified or repaired by any party other than B&B Electronics or (iii) any descriptions, illustrations, figures as to performance, drawings and particulars of weights and dimensions contained in the B&B Electronics' catalogs, price lists, marketing materials or elsewhere since they are merely intended to represent a general idea of the products and do not form part of this price quote and do not constitute a warranty of any kind, whether express or implied, as to any of the B&B Electronics' products.

THE REPAIR OR REPLACEMENT OF THE DEFECTIVE ITEMS IN ACCORDANCE WITH THE EXPRESS WARRANTY SET FORTH ABOVE IS B&B ELECTRONIC'S SOLE OBLIGATION UNDER THIS WARRANTY. THE WARRANTY CONTAINED IN THIS SECTION SHALL EXTEND TO THE ORIGINAL USER ONLY, IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL SUCH WARRANTIES AND INDEMNITIES ARE EXPRESSLY DISCLAIMED, INCLUDING WITHOUT LIMITATION (I) THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY AND (II) ANY WARRANTY THAT THE PRODUCTS ARE DO NOT INFRINGE OR VIOLATE THE INTELLECTUAL PROPERTY RIGHTS OF ANY THIRD PARTY. IN NO EVENT SHALL B&B ELECTRONICS BE LIABLE FOR LOSS OF BUSINESS, LOSS OF USE OR OF DATA INTERRUPTION OF BUSINESS, LOST PROFITS OR GOODWILL OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES. B&B ELECTRONIC SHALL DISREGARD AND NOT BE BOUND BY ANY REPRESENTATIONS, WARRANTIES OR INDEMNITIES MADE BY ANY OTHER PERSON, INCLUDING WITHOUT LIMITATION EMPLOYEES, DISTRIBUTORS, RESELLERS OR DEALERS OF B&B ELECTRONIC WHICH ARE INCONSISTENT WITH THE WARRANTY, SET FORTH ABOVE.

Table of Contents

FCC Radio Frequency Interference Statement	ii
Limited Lifetime Warranty	ii
About the McPC MediaLinX	1
PCI Version	2
ISA Version	3
Specifications (PCI and ISA Version)	4
B&B Electronics Technical Support	5
Fiber Optic Cleaning Guidelines	5
Electrostatic Discharge Precautions	7
Safety Certifications.....	8

About the McPC MediaLinX

McPC MediaLinX is a low-cost, IEEE 802.3 single-conversion, PC card media converter. It converts 10/100 twisted pair copper to fiber, and is available in ST or SC connectors in a variety of wavelengths (multi-mode and single mode). The fiber port always operates at 100 Mbps FDX; the copper port auto-senses the connected device's speed and duplex mode: 10 Mbps or 100 Mbps and HDX or FDX (including Flow Control).

Install McPC MediaLinX into any PC with a standard PCI slot. McPC MediaLinX includes one RJ-45 connector for the twisted pair port and a pair of ST or SC connectors. It also includes LEDs for each port and a 4-pin peripheral power supply connector.

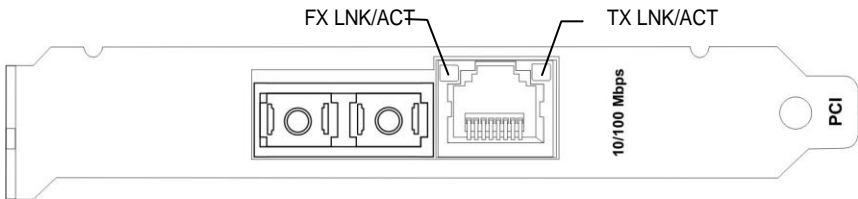
Installing the McPC MediaLinX (PCI Version)

Offering plug-and-play operation, the McPC MediaLinX comes ready to install, utilizing power from the PC's power supply. To install the McPC MediaLinX:

1. Turn off the PC
2. Remove its cover
3. Find an empty PCI slot
4. Align the McPC MediaLinX in the slot
5. Screw the the McPC MediaLinX into the computer casing's bracket
6. Make sure the McPC MediaLinX does not extend past the edge of the case
7. Attach the keyed mini-power connector to the McPC MediaLinX
8. Attach the male end of the "Y" connector to one of the computer's standard size power connectors
9. Replace the cover
10. Attach the cables between the McPC MediaLinX and the devices that will be connected

Twisted Pair Crossover/Pass-Through Button (PCI Version)

Whether using crossover or straight-through CAT5 twisted pair cabling, the McPC MediaLinX will support both types of connections with *AutoCross*, a feature which automatically selects between a crossover workstation or Pass-Through connection depending on the connected device.



LED Indicators (PCI)

Each McPC MediaLinX includes two LEDs, located on the RJ-45 connector.

LED functions are as follows:

- FX LNK/ACT** Glows green when a link is established on the fiber port; blinks green when activity is detected on the fiber port.
- TX LNK/ACT** Glows green when a link is established on the copper port; blinks amber when activity is detected on the copper port.

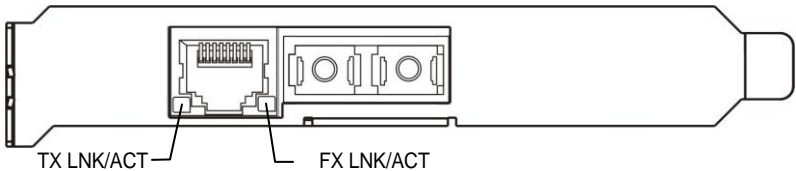
Installing the McPC MediaLinX (ISA Version)

Offering plug-and-play operation, the McPC MediaLinX comes ready to install, utilizing power from the PC's power supply. To install the McPC MediaLinX:

11. Turn off the PC
12. Remove its cover
13. Find an empty PCI slot
14. Align the McPC MediaLinX in the slot
15. Screw the the McPC MediaLinX into the computer casing's bracket
16. Make sure the McPC MediaLinX does not extend past the edge of the case
17. Attach the keyed mini-power connector to the McPC MediaLinX
18. Attach the male end of the "Y" connector to one of the computer's standard size power connectors
19. Replace the cover
20. Attach the cables between the McPC MediaLinX and the devices that will be connected

Twisted Pair Crossover/Pass-Through Button (ISA Version)

Whether using crossover or straight-through CAT5 twisted pair cabling, the McPC MediaLinX will support both types of connections with *AutoCross*, a feature which automatically selects between a crossover workstation or Pass-Through connection depending on the connected device.



LED Indicators (ISA)

Each McPC MediaLinX includes two LEDs, located on the RJ-45 connector.

LED functions are as follows:

- FX LNK/ACT** Glows green when a link is established on the fiber port; blinks green when activity is detected on the fiber port.
- TX LNK/ACT** Glows green when a link is established on the copper port; blinks amber when activity is detected on the copper port.

Specifications (PCI and ISA Version)

Environmental

Operating Temperature

32° - 104° F (0° - 40° C)

Storage Temperature

0° - 160° F (-20° - 70° C)

Humidity:

5 - 95% (non-condensing)

Power Consumption (Typical)

Current Draw

0.7A @ 5VDC

Input Specifications

Power Input: 5V

B&B Electronics Technical Support

Tel: (800) 346-3119 (in the U.S. and Canada)

Monday-Friday, 7:00am-7:00pm CST

+353 91 792444 (Europe)

Monday through Friday 8:00am - 5:00pm GMT

Fax: (815) 433-5109 U.S. and Canada

+353 91-79244S5 Europe

E-Mail: support@bb-elec.com U.S. and Canada

techsupport@bb-elec.com Europe

Web: www.bb-elec.com

Fiber Optic Cleaning Guidelines

Fiber Optic transmitters and receivers are extremely susceptible to contamination by particles of dirt or dust, which can obstruct the optic path and cause performance degradation. Good system performance requires clean optics and connector ferrules.

1. Use fiber patch cords (or connectors, if you terminate your own fiber) only from a reputable supplier; low-quality components can cause many hard-to-diagnose problems in an installation.
2. Dust caps are installed at B&B Electronics to ensure factory-clean optical devices. These protective caps should not be removed until the moment of connecting the fiber cable to the device. Should it be necessary to disconnect the fiber device, reinstall the protective dust caps.
3. Store spare caps in a dust-free environment such as a sealed plastic bag or box so that when reinstalled they do not introduce any contamination to the optics.
4. If you suspect that the optics have been contaminated, alternate between blasting with clean, dry, compressed air and flushing with methanol to remove particles of dirt.

Electrostatic Discharge Precautions

Electrostatic discharge (ESD) can cause damage to any product, add-in modules or stand alone units, containing electronic components. Always observe the following precautions when installing or handling these kinds of products

1. Do not remove unit from its protective packaging until ready to install.
2. Wear an ESD wrist grounding strap before handling any module or component. If the wrist strap is not available, maintain grounded contact with the system unit throughout any procedure requiring ESD protection.
3. Hold the units by the edges; do not touch the electronic components or gold connectors.
4. After removal, always place the boards on a grounded, static-free surface, ESD pad or in a proper ESD bag. Do not slide the modules or stand alone units over any surface.



WARNING! Integrated circuits and fiber optic components are extremely susceptible to electrostatic discharge damage. Do not handle these components directly unless you are a qualified service technician and use tools and techniques that conform to accepted industry practices.

Safety Certifications

CE: The products described herein comply with the Council Directive on Electromagnetic Compatibility (2004/108/EC). For further details, contact B&B Electronics.



**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.





International Headquarters

B&B Electronics
707 Dayton Road
Ottawa, IL 61350 USA

Phone (815) 433-5100 — **General Fax** (815) 433-5105

Email: support@bb-elec.com

Website: www.bb-elec.com

European Headquarters

B&B Electronics
Westlink Commercial Park
Oranmore, Co. Galway, Ireland

Phone +353 91-792444 — **Fax** +353 91-7924455

Email: techSupport@bb-elec.com

Website: www.bb-elec.com

**ISO 9001:2000
REGISTERED**



© 2009 B&B Electronics. All rights reserved.

The information in this document is subject to change without notice. B&B Electronics assumes no responsibility for any errors that may appear in this document. McPC 100Mbps is a trademark of B&B Electronics. Other brands or product names may be trademarks and are the property of their respective companies.

Document Number 55-80732-02 A0

February 2014