# 10/100 Mbps
# Ethernet Media Converter

## iMcV-MediaLinX series & IE-iMcV-MediaLinX series

B+B SMARTWORX

Powered by **ADVANTECH**

### PRODUCT FEATURES

- Available for multi-mode or single-mode fiber
- Double fiber capacity with single-strand fiber versions
- IE-iMcV-MediaLinX supports SFP transceivers and extended operating temperatures
- Modular, hot-swappable architecture reduces operational costs associated with product installation, upgrades and maintenance
- SNMP manageable
- Converts 10 or 100 Mbps copper to 100 Mbps fiber
- Supports Config Control
- Features Link Fault Pass-Through (LFPT)

Satisfying today's networking needs while preparing for tomorrow's cabling requirements can make designing and installing the physical layer of networks a daunting task. The decreasing cost of fiber optic cabling and switching equipment makes all-optical LANs the obvious choice when future-proofing network equipment. Replacing legacy equipment and wiring infrastructure is a costly choice. Managed media conversion allows implementation of new technologies on existing networks, while monitoring all connections, to keep networks running and up-to-date.

Advantech B+B SmartWorx offers a wide range of SNMP-managed Ethernet copper-to-fiber media converters, with a choice of fixed-rate or rate conversion capabilities. The "iMcV-" modules also include troubleshooting features and LEDs to assist in network diagnostics as well as make isolating cable breaks easier. The iMcV-MediaLinX and IE-iMcV-MediaLinX also feature Link Fault Pass-Through (LFPT). In addition, the IE- module provides support for Config Control if using SNMP management.

All converters feature a 10/100 to 100Mbps copper-to-fiber media converter, with a choice of SC, ST or SFP (IE-iMcV-MediaLinX module only) connectors and are all hot-swappable.

Rate converters employ auto-negotiation functionality on the twisted pair port for plug-and-play operation, or they can be manually configured for the desired speed and duplex mode.

### ORDERING INFORMATION

| MODEL NUMBER | FIBER | FIBER PORTS | RANGE | ETHERNET PORTS | ETHERNET CONNECTOR |
|---|---|---|---|---|---|
| **IE-iMcV-MediaLinX TX/SFP 10/100 Mbps with (LFPT) and Config Control * ** ** | | | | | |
| BB-856-18700 | SFP | 1 | Various | 1 | RJ45 |
| **iMcV-MediaLinX TX/FX 10/100 Mbps with (LFPT) and Config Control** | | | | | |
| BB-856-15717 | SM1310/PLUS-ST | 1 | 40 km | 1 | RJ45 |
| BB-856-15718 | SM1310/PLUS-SC | 1 | 40 km | 1 | RJ45 |
| **SINGLE STRAND FIBER *** | | | | | |
| BB-856-15731 | SSFX-SM1310-SC (1310xmt/1550rcv) | 1 | 20 km | 1 | RJ45 |
| BB-856-15732 | SSFX-SM1550-SC (1550xmt/1310rcv) | 1 | 20 km | 1 | RJ45 |
| BB-856-15733 | SSFX-SM1310/PLUS-SC (1310xmt/1550rcv) | 1 | 40 km | 1 | RJ45 |
| BB-856-15734 | SSFX-SM1550/PLUS-SC (1550xmt/1310rcv) | 1 | 40 km | 1 | RJ45 |
| BB-856-15735 | SSFX-SM1310/LONG-SC (1310xmt/1550rcv) | 1 | 60 km | 1 | RJ45 |
| BB-856-15736 | SSFX-SM1550/LONG-SC (1550xmt/1310rcv) | 1 | 60 km | 1 | RJ45 |

\* These products have single-strand fiber technology.
Deploy in pairs or connect another compatible Advantech B+B SmartWorx single-strand fiber product.

\*\* SFP fibers sold separately - available at www.advantech-bb.com

## iView²
DEVICE MANAGEMENT APPLICATION

*iView: Webserver Version*
*Free Download*

# 10/100 Mbps
# Ethernet Media Converter

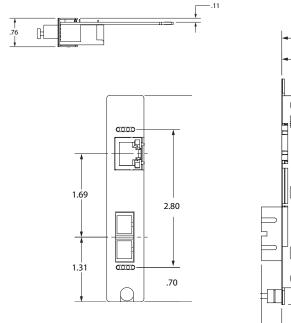## iMcV-MediaLinX series & IE-iMcV-MediaLinX series
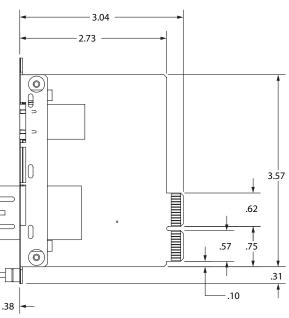
## SPECIFICATIONS

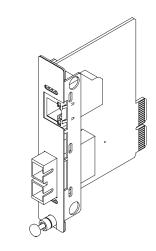| TECHNICAL |
|---|
| IEEE 802.3 10Base-T |
| IEEE 802.3u 100Base-TX |
| IEEE 802.3u 100Base-FX or SX fiber |
| IE-SFP 100/155 Mbps (OC-3) (IE-iMcV-MediaLinX) |
| Supports Jumbo Packets up to 1916 bytes |
| Supports Config Control |
| Connectors: RJ-45 and ST, SC, LC or SFP |
| IEEE 802.3x Flow Control |
| AutoCross for MDI/MDIX |
| Features LinkLoss and FiberAlert |
| Features Link Fault Pass-Through (LFPT) |
| Features Auto Negotiation and Selective Advertising |
| Layer 2 Packet Switching, Store and Forward Operation |
| Forwarding Rate: 14,881 pps for 10 Mbps; 148,810 pps for 100 Mbps; 1,488,100 pps for 1000 Mbps (Gig only) |
| 50/125µm or 62.5/125µm Multi-mode Fiber |
| 9/125µm Single-mode Fiber |
| Available for Single-strand Fiber |
| Installs in any iMediaChassis or MediaChassis |
| Supports GUI-Based iView² |
| Supports Half- and Full-Duplex operation |
| Includes Diagnostic LEDs |
| Includes Hot-swappable architecture |

| MECHANICAL | |
|---|---|
| Dimensions | 10.74h x 2.0w x 7.05d cm   (4.19h x 0.78w x 2.75d in) |
| Shipping Weight | 0.11 kg  (0.30 lb) |
| **ENVIRONMENTAL** | |
| Operating Temperature | iMcV-MediaLinX:  0 to +50 °C  (+32  to +122 F)<br>IE-iMcV-MediaLinX:  -40 to +85 °C  (-40 to +185 °F) |
| Storage Temperature | -25 to +70 °C  (-13 to +158 °F) |
| Operating Humidity | 5 to 95% (non-condensing),<br>0 to 10000 ft. altitude |
| **MEANTIME BEFORE FAILURE (MTBF)** | |
| MTBF | 2.6 million hours |
| MTBF Calculation Method | Parts Count Reliability Prediction |
| **REGULATORY APPROVALS, DIRECTIVES, STANDARDS** | |
| FCC Class B, CE | |

## MECHANICAL DIAGRAM

units = inches