10/100/1000 Mbps Ethernet Media Converter

iMcV-Giga-MediaLinX series

B+B SMARTWORX

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www.advantech-bb.com



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-Giga-MediaLinX features Link Fault Pass-Through. In addition, support for Config Control, included only on the SFP model, is available if using SNMP management.

All converters feature an RJ-45 copper port and a fiber port, with a choice of SC or SFP connectors, and are hot-swappable. An SFP-form factor is also available, providing more flexibility; it supports both 100Mbps and 1 Gigabit fiber SFPs.

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.

PRODUCT FEATURES

- Available for multi-mode or single-mode fiber including SFP form factor
- Double fiber capacity with single-strand fiber versions
- Modular, hot-swappable architecture reduces operational costs associated with product installation, upgrades and maintenance
- SNMP manageable
- Converts 10/100/1000Mbps copper to Gigabit fiber
- Supports Configuration Control
 Features Link Fault Pass-Through (SFP model)

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ethernet Ports	ETHERNET CONNECTOR
iMcV-Giga-MediaLinX TX/SFP with LFPT and Config Control					
856-15410	TX/SFP	1	Various	1	RJ-45
iMcV-Giga-MediaLinX TX/LX or SX 10/100/1000 Mbps with (LFPT) and Config Control					
856-11950	SX-MM850-SC	1	220/550 m	1	RJ45
856-11951	LX-SM1310-SC	1	10 km	1	RJ45
SINGLE STRAND FIBER *					
856-11940	SSLX-SM1310-SC (1310xmt/1550rcv)	1	10 km	1	RJ45
856-11941	SSLX-SM1550-SC (1550xmt/1310rcv)	1	10 km	1	RJ45
856-11943	SSLX-SM1550/PLUS-SC (1550xmt/1310rcv)	1	40 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



All product specifications are subject to change without notice. iMcV-Giga-MediaLinX_4317ds



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SPECIFICATIONS

TECHNICAL		
IEEE 802.3 10Base-T		
IEEE 802.3u 100Base-TX		
IEEE 802.3ab 1000Base-T Twisted Pair		
IEEE 802.3z 1000Base-LX or SX Fiber		
Supports Packets Up to 1632 Bytes		
Connectors: RJ-45 and ST, SC, LC or SFP		
IEEE 802.3x Flow Control		
AutoCross		
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 (Gigabit 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 iView ²		
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 lbs)			
ENVIRONMENTAL				
Operating Temperature:	0 to +50 °C (+32 to +122 °F)			
Storage Temperature:	-25 to +70 °C (-13 to +158 °F)			
Operating Humidity	5 to 95% (non-condensing), 0 to 10,000 ft. altitude			
REGULATORY APPROVALS				
FCC Class B				
CE				
MEANTIME BEFORE FAILURE (MTBF)				
MTBF	1.4 million hours			



MECHANICAL DIAGRAM

units = inches



1.69

1.31





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