

10/100 Mbps Managed Optical Demarcation Module

iMcV-FiberLinX-II series

B+B SMARTWORX

Powered by

ADVANTECH

www.advantech-bb.com



PRODUCT FEATURES

- Q-in-Q Extra/Tagging
- SNMP manageable
- OAM 802.3ag/ah (Operation, Administration & Management)
- Per-port bi-directional bandwidth control
- Features powerful LinkLoss, FiberAlert and loopback troubleshooting
- All management traffic remains isolated from the remote LAN

The iMcV-FiberLinX-II intelligent media converter connects a Host/Remote Ethernet network over a fiber optic or CAT 5 copper connection. It combines media conversion with an advanced-feature set for network management and troubleshooting, including OAM (Operations, Administration and Maintenance), Extra-Tagging and EtherType control functionality. With the iMcV-FiberLinX-II, administrators can observe the end-points over the fiber segment between them, as a single management entity. Bandwidth scalability and support for MIBs II makes this modular device a cost-effective solution.

Free SNMP software, iView2, allows for remote configuration and alerts administrators to any potential problems on the long-haul fiber run, provides vital information on link condition and reports data traffic statistics. In addition to the iMcV-FiberLinX-II's support for Host/Remote environments, the product also has built-in support for the Unified Management Agent (UMA). With UMA, the central location can manage all Host/Remote pairs installed in an iMediaChassis (available from B+B SmartWorx) with the single IP address of the chassis.

An optional SFP port model supporting fiber SFPs (available from B+B SmartWorx) offers more complete network flexibility. MSA-compliant fiber Fast Ethernet can be installed, for single mode, multi mode and single strand fiber types. (Copper SFPs are not supported.)

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
iMcV-FiberLinX-II TX/SFP, TX/TX					
BB-856-14500	SFP*	1	Various	2	RJ45
iMcV-FiberLinX-II TX/FX					
SINGLE STRAND FIBER **					
BB-856-14043	SSFX-SM1310-SC	1	20 km	2	RJ45
BB-856-14044	SSFX-SM1550-SC	1	20 km	2	RJ45
BB-856-14045	SSFX-SM1310/PLUS-SC	1	40 km	2	RJ45
BB-856-14046	SSFX-SM1550/PLUS-SC	1	40 km	2	RJ45

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

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



iView: Webserver Version
Free Download

All product specifications are subject to change without notice.
iMcV-FiberLinX-II_4018ds

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SPECIFICATIONS

GENERAL

Preserves complete end-to-end fiber connection integrity
Broadcast Storm Protection
Supports extra ragging (Q-in-Q) and selectable EtherTypes
Bi-directional bandwidth control
Supports 802.3ag OAM (Operation, Administration & Management)
ITU-T Y.1731 End-to-end service
Read/write IEEE 802.1Q VLAN-tags
QoS: IEEE 802.1p-based packet prioritization (2 queues [high/low] with 8 levels of priority)
Layer 2 packet switching, store and forward operation
Forwarding rate: 14,881 pps for 10 Mbps; 148,810 pps for 100 Mbps
AutoCross for MDI/MDIX
Features auto-negotiation and selective advertising
Supports half and full-duplex operation
MTU: Supports jumbo packets up to 1916 bytes per packet

MANAGEMENT

SNMP V1 and V2c compatible
Includes GUI-based iView ² software for remote management and upgrades
Monitors far-end (remote) status without a physical presence or separate connection
IEEE 802.3x flow control
Includes DHCP and TFTP clients
Supports Telnet
Includes loopback test modes (MAC swap)
Includes LinkLoss, FiberAlert, and Link Fault Pass Through
Supports the Unified Management Agent (UMA)

ETHERNET PROTOCOLS SUPPORTED

IEEE 802.3i 10Base-T twisted-pair
IEEE 802.3u 100Base-TX twisted-pair
IEEE 802.3u 100Base-FX or SX fiber

MECHANICAL

Dimensions	Standard single-slot chassis module
Shipping Weight	113.4 gm (4.0 oz)

POWER CONSUMPTION

850mA at 3.3V

ENVIRONMENTAL

Operating Temperature	0 to +50 °C (+32 to +122 °F)
Storage Temperature	-20 to +70 °C (0 to +160 °F)
Operating Humidity	5 to 95% Non-condensing

MEANTIME BEFORE FAILURE

MTBF	1.6 million hours
MTBF Calculation Method	MIL217F Parts Count Reliability Prediction

REGULATORY APPROVALS, DIRECTIVES, STANDARDS

FCC Class A, UL/cUL, CE, CSA, CB	
CE – Directives	2014/30/EU – Electromagnetic Compatibility Directive 2011/65/EU – Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU – Waste Electrical and Electronic Equipment (WEEE)
CE – Standards	EMC: EN 55032 +Class A – Electromagnetic Compatibility of Multimedia Equipment EN 55024 – Information Technology Equipment - Immunity

MECHANICAL DIAGRAM

Units = inches

