

# 10/100 Mbps Managed Optical Demarcation Module

iMcV-FiberLinX-II



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.

iMcV-FiberLinX-II 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 with the single IP address of the chassis.

Optional single- or dual-SFP port versions or all copper (RJ-45) port versions are also available for complete network flexibility. The iMcV-FiberLinX-II SFP requires one or two MSA-compliant fiber optic SFP modules (sold separately) to operate. [Copper SFPs are not supported.]

## 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

## ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
<b>iMcV-FiberLinX-II TX/SFP, TX/TX</b>					
856-14500	SFP	1	Various	2	RJ45
856-14501	SFP	2	Various	1	RJ45
856-14010			100 m	3	RJ45
<b>iMcV-FiberLinX-II TX/FX</b>					
856-14011	MM1300-ST	1	5 km	2	RJ45
856-14012	MM1300-SC	1	5 km	2	RJ45
856-14015	SM1310/PLUS-ST	1	40 km	2	RJ45
856-14016	SM1310/PLUS-SC	1	40 km	2	RJ45
856-14017	SM1310/LONG-ST	1	80 km	2	RJ45
856-14018	SM1310/LONG-SC	1	80 km	2	RJ45
856-14021	SM1550/LONG-SC	1	80 km	2	RJ45
856-14022	SM1550/XLONG-SC	1	100 km	2	RJ45
<b>SINGLE STRAND FIBER *</b>					
856-14039	SSFX-MM1310-SC	1	2 km	2	RJ45
856-14040	SSFX-MM1550-SC	1	2 km	2	RJ45
856-14043	SSFX-SM1310-SC	1	20 km	2	RJ45
856-14044	SSFX-SM1550-SC	1	20 km	2	RJ45
856-14045	SSFX-SM1310/PLUS-SC	1	40 km	2	RJ45
856-14046	SSFX-SM1550/PLUS-SC	1	40 km	2	RJ45
856-14047	SSFX-SM1310/LONG-SC	1	60 km	2	RJ45
856-14048	SSFX-SM1550/LONG-SC	1	60 km	2	RJ45

\* These products have single-strand fiber technology. Deploy in pairs or connect another compatible B&B IMC LLC single-strand fiber product.

**iMcV-FiberLinX-II also available in CWDM Fiber.  
Call for details.**

# 10/100 Mbps Managed Optical Demarcation Module

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## SPECIFICATIONS

### GENERAL

- Preserves complete end-to-end fiber connection integrity
- Broadcast Storm Protection
- Supports Extra Tagging (Q-in-Q) and selectable EtherTypes
- Bi-directional bandwidth control
- Supports 802.3ag/ah 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 over-sized (Jumbo) packets up to 1916 bytes per packet

### MANAGEMENT

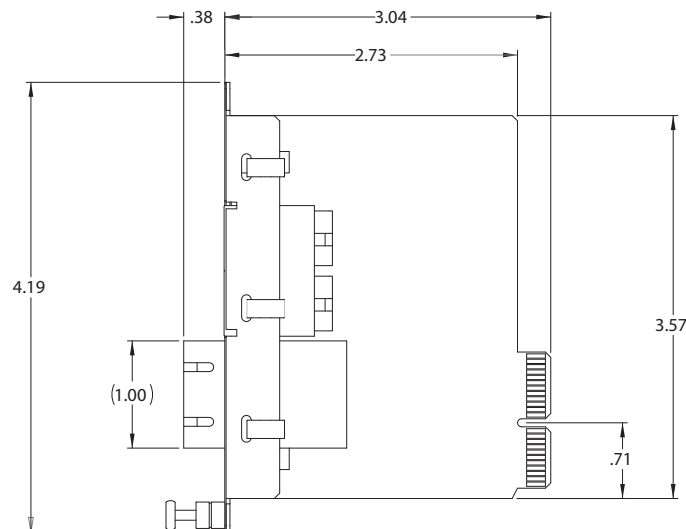
- SNMP V1 and V2c compatible
- Includes GUI-based iView<sup>2</sup> software for remote management and upgrades
- Monitors far-end (remote) status without a physical presence or separate connection
- IEEE 802.3x Flow Control
- Includes DHCP and TFTP clients
- Supports Telnet
- Includes loopback test modes (MAC swap)
- Includes LinkLoss and FiberAlert
- 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 DIAGRAM

(dimensions in inches)



### MECHANICAL

- Dimensions Standard single-slot chassis module
- Shipping Weight 4 oz.

### POWER CONSUMPTION

850mA at 3.3V

### ENVIRONMENTAL

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

### REGULATORY APPROVALS

- FCC Class A
- UL/cUL, CE, CSA, CB

