# 10/100 Mbps Managed Multi-port Optical Demarcation Device

AccessEtherLinX/4

## PRODUCT FEATURES

- Independent RJ45 ports for flexible configuration
- SNMP Manageable
- Read/Write IEEE 802.1Q VLAN-tags
- Bi-directional Bandwidth control
- Linkloss and FiberAlert
- Selective Advertising

The AccessEtherLinX/4 enables service providers to offer differentiated, "Transparent LAN" services to multi-tenant building and business customers. Residing at the customer premises, the AccessEtherLinX/4 provides a VLAN-based, Layer 2 entry point to the last mile fiber network, trunking, differentiating and separating customer traffic.

Featuring SNMP management, 802.1Q VLAN, 802.1p QoS, traffic prioritization, bandwidth control and multicast pruning/snooping (using IGMP v1, v2), the AccessEtherLinX/4 is perfect for a wide range of Fiber to-the-Home, Fiber-to-the-Curb and Fiber-to-the-Business (collectively "FTTx") services, and is an ideal solution for delivering those Ethernet based services to customers quickly and cost-effectively. Designed with a small footprint, the AccessEtherLinX/4 facilitates easy installation inside the premises.

Bandwidth control and 802.1Q VLAN compatibility built-in: The AccessEtherLinX/4 accepts traffic containing VLAN tags on the Uplink port and directs traffic to the twisted pair downlink ports or to management based on VLAN ID. In addition to assigning 802.1Q VLAN-tags on a per-port basis, priority can be defined for each port and SNMP tag; traffic is divided into a hi/low level for packet prioritization in the queue. The AccessEtherLinX/4 also includes bi-directional bandwidth control, and supports IGMP multicast pruning to ensure the necessary amount of IP multicast packets are bridged.

## ORDERING INFORMATION

| MODEL NUMBER | FIBER | FIBER PORTS | RANGE | ETHERNET PORTS | ETHERNET CONNECTOR |
|---|---|---|---|---|---|
| **AccessEtherLinX/4** | | | | | |
| 852-13120 | | | 100m | 5 | RJ45 |
| 852-13121 | MM1300-ST | 1 | 5 km | 4 | RJ45 |
| 852-13122 | MM1300-SC | 1 | 5 km | 4 | RJ45 |
| 852-13123 | SM1310/PLUS-ST | 1 | 40 km | 4 | RJ45 |
| 852-13124 | SM1310/PLUS-SC | 1 | 40 km | 4 | RJ45 |
| 852-13125 | SM1310/LONG-ST | 1 | 80 km | 4 | RJ45 |
| 852-13126 | SM1310/LONG-SC | 1 | 80 km | 4 | RJ45 |
| 852-13127 | SM1550/LONG-SC | 1 | 80 km | 4 | RJ45 |
| **SINGLE STRAND FIBER \*** | | | | | |
| 852-10133 | SSFX-SM1310-SC | 1 | 20 km | 4 | RJ45 |
| 852-10134 | SSFX-SM1550-SC | 1 | 20 km | 4 | RJ45 |
| 852-10135 | SSFX-SM1310/PLUS-SC | 1 | 40 km | 4 | RJ45 |
| 852-10136 | SSFX-SM1550/PLUS-SC | 1 | 40 km | 4 | RJ45 |
| 852-10137 | SSFX-SM1310/LONG-SC | 1 | 60 km | 4 | RJ45 |
| 852-10138 | SSFX-SM1550/LONG-SC | 1 | 60 km | 4 | RJ45 |

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

**AccessEtherLinX/4 also available in CWDM Fiber. Call for details.**

## ACCESSORIES

895-39226 - Rackmount Bracket

895-39949 - Rackmount Shelf



iView: Windows 2000/XP/Vista/Win7

## MECHANICAL DIAGRAM

(dimensions in inches)
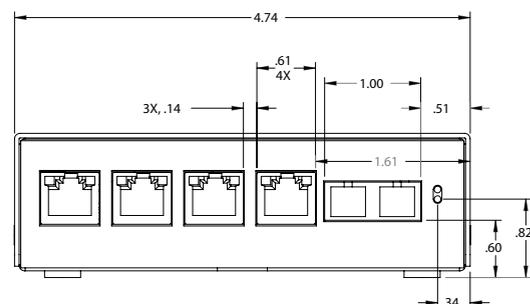
## SPECIFICATIONS

### ETHERNET TYPES SUPPORTED

IEEE 802.3i Ethernet 10Base-T

IEEE 802.3u Fast Ethernet
(100Base-TX and 100Base-FX)

Features Auto Negotiation and Selective Advertising

Supports Half and Full-Duplex operation

Includes bi-directional bandwidth control

Read/write IEEE 802.1Q VLAN-tags

QoS - IEEE 802.1p-based packet prioritization (two queues [high/low] with eight priority levels)

Supports IGMP multicast pruning (v1/v2)

Layer 2 packet switching, store and forward operation

Includes LinkLoss and FiberAlert

Forwarding rate: 14,881 pps for 10 Mbps; 148,810pps for 100 Mbps

1024 MAC address learning

MTU: Supports over-sized packets
up to 1916 bytes

### MANAGEMENT

Includes GUI-based iView² software

SNMP V1 and V2c compatible

Supports Telnet and RS-232 Craft

Managed through uplink

IEEE 802.3x compliant for Flow Control

Includes DHCP and TFTP clients for remote management and upgrades

Includes diagnostic LEDs

### IMC MIB

Traps (Cold Start, Warm Start, Link Up, Link Down, Authentication Failure)

Link Status of Ports

Port Type

Fiber Type

User-Definable Name of Product

User-Definable ID/Name for Ports

Enable/Disable Ports

Enable/Disable FiberAlert

Set for Auto Negotiation/Selective Advertising

Force speed and Duplex Mode for twisted pair ports
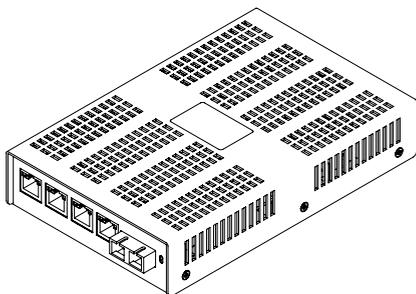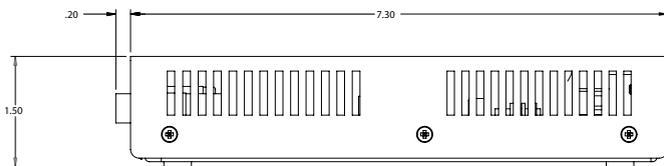
### MIB-II (RFC 1213)

Packets Transmitted

Packets Received

Octets (bytes) Transmitted

Octets (bytes) Received

Unicast Packets Transmitted

Unicast Packets Received

Non-Unicast Packets Transmitted

Non-Unicast Packets Received

Errors Received

Plus All Standard MIB II Objects

### RMON STATISTICS

Drop Events

Collisions

Total Bytes

Total Packets

Fragments

Jabbers

Broadcast Packets

Multicast Packets

CRC Align Errors

Under & oversize Packets

Distribution of Frame Size

### TRANSMISSION DOT 3 (RFC1643)

Alignment Errors

Single Collision Frames

CRC Errors

SQE Test Errors

Late Collisions

Frame Too Long

Excessive Collisions

Deferred Transmissions

Multiple Collision Frames

### MECHANICAL

| | |
|---|---|
| Dimensions | 1.5" H x 4.75" W x 7.25" D (3.18 cm x 12.07 cm x 18.42 cm) |
| Enclosure | Metal |
| Shipping Weight | 1.6 lbs. (0.6 kg) |

### POWER RATING

100-240 VAC, 50/60Hz, 1.0A

### ENVIRONMENTAL

| | |
|---|---|
| Operating Temperature | +32° to +122° F (0° to +50° C) |
| Storage Temperature | -13° to +158° F (-25° to +70° C) |
| Operating Humidity | 5 to 95% Non-condensing |

### REGULATORY APPROVALS

FCC Class A

UL/cUL, CSA, CE