

Giga-AccessEtherLinX-II

Optical Ethernet Access Device

A Managed Optical Demarcation device offering advanced “Multi-Tenant” capabilities unique to multi-port Ethernet-based CPE.

Features and Benefits

Small Footprint, Full-Featured

- 802.1Q VLAN-tags on a per-port basis, based on DiffServ or PRI values
- QoS – 802.1p-based packet prioritization
- Allows configuration via GUI, Telnet or serial port
- Remote management and upgrades
- Per-port bi-directional bandwidth control
- Supports IGMP multicast pruning
- RMON traffic statistics

Integrated Solution

- Lowers the cost of provisioning fiber services
- SNMP-Manageable
- Supports remote “IP-Less” management when connected to a iMcV-Giga-FiberLinX-II

Secure and flexible solution

- All management traffic remains isolated from the remote LAN
- IEEE 802.1Q VLAN and 802.1p compliant
- VLAN-tagging and Q-in-Q (double-tagging) segregates customer traffic

Easy to configure and manage with GUI-based iView²

- Up and running in less than five minutes
- Includes RMON statistics
- TRAP notification capability
- SNMP V1 and V2c compatible



The Giga-AccessEtherLinX-II enables service providers to offer differentiated “Transparent LAN” services to multi-tenant building and business customers without the need for costly remote routers. Residing at the customer premises, the Giga-AccessEtherLinX-II provides a VLAN-based, Layer 2 entry point to the last mile fiber network to support trunking, differentiating and separating customer traffic. Featuring SNMP management with per-port 802.1Q VLAN, 802.1p QoS, traffic prioritization, bandwidth control and multicast pruning/snooping (using IGMP v1, v2), the Giga-AccessEtherLinX-II is perfect for a wide range of Fiber-to-the-Home, Fiber-to-the-Curb and Fiber-to-the-Business (FTTx) services, and is an ideal solution for delivering Ethernet-based services to customers quickly and cost effectively. Designed with a small footprint, the Giga-AccessEtherLinX-II facilitates easy installation inside the premises. It features four 10/100/1000 twisted pair Ethernet downlink ports (for connecting users/LANs), with either a 1000Base-FX fiber or SFP uplink port, and is powered from an internal AC or DC power supply.

The Giga-AccessEtherLinX-II includes per-port bandwidth control and is 802.1Q VLAN compatible.

The Giga-AccessEtherLinX-II accepts traffic containing VLAN tags on the Uplink port and directs that traffic to the twisted pair downlink ports based on the VLAN ID. In addition to assigning 802.1Q VLAN-tags on a per-port basis, users can also “Qualify” the different VLAN TAGS to assign based on the DiffServ or PRI value of the incoming frame. Traffic priority for each port is supported with a hi/low prioritization queues. The Giga-AccessEtherLinX-II includes per port bi-directional bandwidth control, and supports IGMP multicast pruning which ensures only the necessary amount of IP multicast packets are bridged.

Easily configure and manage the Giga-AccessEtherLinX-II with GUI-based iView²

IMC Networks’ powerful element management system, iView² allows for remote link enable/disable, remote firmware updates, and can receive all essential device traffic statistics via SNMP. In addition, iView² runs standalone on Windows XP/2000/Vista systems, as a standalone Java Application for other operating systems, as a snap-in module for HP OpenView, or as a Web Server version. For assistance in selecting the right version of iView², visit <http://www.imcnetworks.com/Products/iView2.cfm>. The Giga-AccessEtherLinX-II supports management through a remote Telnet or a local serial connection and is compliant with IMC’s Unified Management Agent (UMA). This allows both the host and remote units to be managed from a single IP address assigned to the Central Office chassis. Remote Firmware upgrading can also be supported through a FTP server.

Technical Specifications

General

- Monitors (remote) status without a physical presence or separate "IP" connection through UMA
- Maintains security; all management traffic can remain isolated from the data traffic
- Read/write IEEE 802.1Q VLAN-tags
- Q-in-Q (double-tagging) to further segregate customer VLAN traffic
- Can assign different TAGS based on DiffServ or PRI values of incoming frames.
- QoS: IEEE 802.1p-based or DSCP packet prioritization (2 queues [high/low] with 8 levels of priority)
- VLAN Tag-based on DSCP or priority of incoming frame ("traffic grooming")
- 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
- Includes per-port bi-directional bandwidth control
- AutoCross for MDI/MDIX
- Features Auto Negotiation and Selective Advertising
- MTU: Supports packets up to 9600 bytes
- Supports Half- and Full-Duplex operation
- Supports IEEE 802.3x Flow Control

Management

- Includes GUI-based iView² software, featuring iConfig utility for rapid IP configuration
- SNMP V1 and V2c compatible
- Includes DHCP client for IP address assignment
- Features TFTP client for remote upgrades
- Supports Telnet - Includes DB-9 connector for serial configuration
- Includes per port loopback test modes
- Includes diagnostic LEDs

Ethernet Protocols Supported

- 802.3 10Base-T twisted pair
- 802.3u 100Base-TX twisted pair
- 802.3ab 1000Base-T twisted pair
- 802.3z 1000Base-LX or SX fiber

Connectors:

- RJ-45 and SC or SFP

Regulatory Approvals:

- FCC Class B
- UL/cUL, CE, CB

Dimensions:

1.64" H x 5.64" W x 8.95" D
(4.2 cm x 14.3 cm x 22.7 cm)

Shipping Weight:

1.6 lbs. (0.6 kg)

Operating Temp:

32° to 122° F (0° to +50° C);
5% to 95% (non-condensing),
0 – 10,000 ft. altitude

Storage Temp:

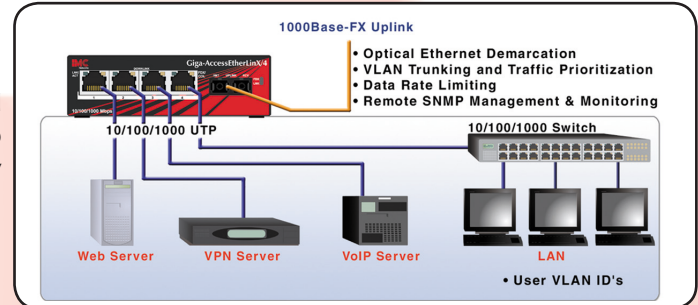
-13° to +158°F (-25° to +70°C);
5% to 95% (non-condensing)

Power Requirements:

100-240V AC, 50/60Hz, 0.5/0.25A for AC
48V DC, 0.5A for DC

Application Example

For residential and commercial fiber services, install the Giga-AccessEtherLinX-II inside the customer premises to provide a bridge between the customer and Service Provider networks, over a point-to-point fiber uplink. Each remote drop can be assigned two unique VLAN tags based on DiffServ or PRI values for easy routing through the network.



Ordering Information

PART NUMBERS		DESCRIPTION	DIS
AC Version	DC Version		
Giga-AccessEtherLinX-II			
852-10302	852-32302	Giga-AccessEtherLinX, TX/4 + SFP (requires one SFP/1250 module) ¹	Varies
852-10303	852-32303	Giga-AccessEtherLinX, TX/4 + SX-MM850-SC	220/550 m
852-10304	852-32304	Giga-AccessEtherLinX, TX/4 + LX-SM1310-SC	15 km
852-10305	852-32305	Giga-AccessEtherLinX, TX/4 + LX-SM1310/PLUS-SC	40 km
852-10306	852-32306	Giga-AccessEtherLinX, TX/4 + LX-SM1550/LONG-SC	80 km
852-10307	852-32307	Giga-AccessEtherLinX, TX/4 + LX-SM1550/XLONG-SC	100 km
Giga-AccessEtherLinX-II Single-Strand Fiber *			
852-10310	852-32310	Giga-AccessEtherLinX, TX/4 + SSLX-SM1310-SC (1310xmt/1550rcv)	15 km
852-10311	852-32311	Giga-AccessEtherLinX, TX/4 + SSLX-SM1550-SC (1550xmt/1310rcv)	15 km
852-10312	852-32312	Giga-AccessEtherLinX, TX/4 + SSBX-SM1310-SC (1310xmt/1490rcv)	10 km
852-10313	852-32313	Giga-AccessEtherLinX, TX/4 + SSBX-SM1490-SC (1490xmt/1310rcv)	10 km
852-10314	852-32314	Giga-AccessEtherLinX, TX/4 + SSLX-SM1310/PLUS-SC (1310xmt/1550rcv)	40 km
852-10315	852-32315	Giga-AccessEtherLinX, TX/4 + SSLX-SM1550/PLUS-SC (1550xmt/1310rcv)	40 km
852-10316	852-32316	Giga-AccessEtherLinX, TX/4 + SSBX-SM1310/PLUS-SC (1310xmt/1490rcv)	30 km
852-10317	852-32317	Giga-AccessEtherLinX, TX/4 + SSBX-SM1490/PLUS-SC (1490xmt/1310rcv)	30 km
852-10318	852-32318	Giga-AccessEtherLinX, TX/4 + SSLX-SM1490/LONG-SC (1490xmt/1550rcv)	70 km
852-10319	852-32319	Giga-AccessEtherLinX, TX/4 + SSLX-SM1550/LONG-SC (1550xmt/1490rcv)	70 km

PART NUMBERS		DESCRIPTION	DIS
AC Version	DC Version		
Giga-AccessEtherLinX-II CWDM			
852-10330	852-32330	Giga-AccessEtherLinX, TX/4 + CWDM-1270-SC	40 km
852-10331	852-32331	Giga-AccessEtherLinX, TX/4 + CWDM-1290-SC	40 km
852-10332	852-32332	Giga-AccessEtherLinX, TX/4 + CWDM-1310-SC	40 km
852-10333	852-32333	Giga-AccessEtherLinX, TX/4 + CWDM-1330-SC	40 km
852-10334	852-32334	Giga-AccessEtherLinX, TX/4 + CWDM-1350-SC	40 km
852-10335	852-32335	Giga-AccessEtherLinX, TX/4 + CWDM-1370-SC	40 km
852-10336	852-32336	Giga-AccessEtherLinX, TX/4 + CWDM-1390-SC	40 km
852-10337	852-32337	Giga-AccessEtherLinX, TX/4 + CWDM-1410-SC	40 km
852-10338	852-32338	Giga-AccessEtherLinX, TX/4 + CWDM-1430-SC	70 km
852-10339	852-32339	Giga-AccessEtherLinX, TX/4 + CWDM-1450-SC	70 km
852-10340	852-32340	Giga-AccessEtherLinX, TX/4 + CWDM-1470-SC	70 km
852-10341	852-32341	Giga-AccessEtherLinX, TX/4 + CWDM-1490-SC	70 km
852-10342	852-32342	Giga-AccessEtherLinX, TX/4 + CWDM-1510-SC	70 km
852-10343	852-32343	Giga-AccessEtherLinX, TX/4 + CWDM-1530-SC	70 km
852-10344	852-32344	Giga-AccessEtherLinX, TX/4 + CWDM-1550-SC	70 km
852-10345	852-32345	Giga-AccessEtherLinX, TX/4 + CWDM-1570-SC	70 km
852-10346	852-32346	Giga-AccessEtherLinX, TX/4 + CWDM-1590-SC	70 km
852-10347	852-32347	Giga-AccessEtherLinX, TX/4 + CWDM-1610-SC	70 km

* These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible single-strand fiber product. Go to www.imcnetworks.com/products/SSFX.cfm for more information

¹ SFP modules are sold separately. For a complete list of available SFPs, go to: <http://www.imcnetworks.com/Products/product.cfm?family=32>

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DS-GigaAccessEtherLinX-1204



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