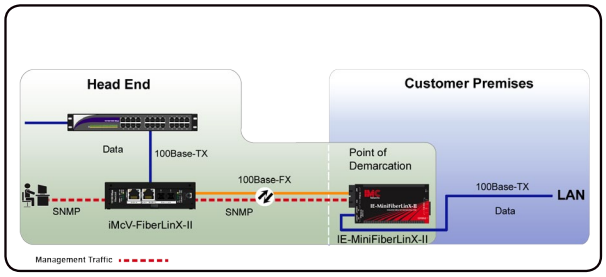
Product Brief - FTTx Solutions

End-to-End Fiber Management and Media Conversion



PROBLEM:

In Fiber-to-the-Subscriber applications, unmanaged media converters at the point of demarcation do not provide adequate management capabilities. The CPE switch / router combination is not cost-effective and is an overkill for the application.

SOLUTION:

The remotely managed iMcV-FiberLinX-II modular device, the standalone AccessEtherLinX/4 and Giga-AccessEtherLinX-II products provide an all-in-one intelligent demarcation point for the customer premises.

The iMcV-FiberLinX-II; iMcV-Giga-FiberLinX-II; IE-MiniFiberLinX-II; Giga-AccessEtherLinX-II; and IE-MultiWay products can help your organization:

- Save hundreds of dollars in capital cost per customer
- Remotely manage and control the entire access network
- Keep customer data and your SNMP traffic separated
- Guarantee the integrity of the optical circuit and customer uptime
- Control customer bandwidth, making easy adjustments as requirements change
- Remove additional edge devices such as routers and VLAN switches
- Eliminate truck rolls after the initial service set up

When provisioning point-to-point optical circuits to business customers, the iMcV-FiberLinX-II and AccessEtherLinX/4 offer features and benefits unique to equipment at this price point:

- ***FiberLinX-II*** is available in three models:
  - » 10/100 Mbps Modules *(iMcV-FiberLinX-II)*
  - » Gigabit Modules *(iMcV-Giga-FiberLinX-II)*
  - » 10/100 Mbps Standalone Units *(IE-MiniFiberLinX-II)*
- ***Giga-AccessEtherLinX-II*** is available in one model:
  - » 10/100 Mbps Standalone 4-port Units
- ***IE-MultiWay*** is available in one model:
  - » 10/100/1000 Mbps 2 x RJ-45, 2 x SFP ports
- Provides copper to fiber media conversion
- Supports SNMP management, Telnet, TFTP
- Supports full range of VLAN IDs
- Offers two-tier queuing for traffic prioritization
- Features bi-directional bandwidth control
- Provides Q-in-Q (Extra-Tagging) abilities to further segregate network traffic
- Supports 802.3ah OAM (Operations, Administration & Management)*
- Includes LinkLoss and FiberAlert for cabling troubleshooting
- Includes Loopback testing functionality
- Available with a(n) SFP port(s) for customizing the fiber type when requirements change (on select versions)
- CWDM and single-strand fiber versions available

** FiberLinx-II Family & IE-MultiWay*

Detailed comparison of all products on back

CARRIER ETHERNET MEF Certified Compliant

IMC Networks
Headquarters
19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com

IMC Networks
Europe
Herseltsesteenweg 268
B-3200 Aarschot | Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks
Eastern US/Latin America
28050 U.S. Hwy. 19 North, Suite 306
Clearwater, FL 33761
TEL: 727-797-0300
FAX: 727-797-0331
latinsales@imcnetworks.com

FTTx Cross-Reference

IMC Networks

	Single-Port Options			Multi-Port Options	
	iMcV-FiberLinX-II	**iMcV-Giga-FiberLinX-II**	**IE-MiniFiberLinX-II**	**Giga-AccessEtherLinX-II**	**IE-MultiWay**
Information listed is for current firmware versions of: iMcV-FiberLinX-II *(Ver. C0)* iMcV-Giga-FiberLinX-II *(Ver. D1)* IE-MiniFiberLinX-II *(Ver. B6)* Giga-AccessEtherLinX-II *(Ver. A0)* IE-MultiWay *(Ver. A1)* Features/functionality subject to change.					
Web Address	http://www.imcnetworks.com/Products/product.cfm?family=15	http://www.imcnetworks.com/Products/product.cfm?family=9	http://www.imcnetworks.com/Products/product.cfm?family=12	http://www.imcnetworks.com/Products/product.cfm?family=54	http://www.imcnetworks.com/Products/product.cfm?family=53
Form Factor	Modular	Modular	Standalone (for desktop/DIN Rail)	Stand-alone (for desktop/rack mounting)	Stand-alone (for desktop/wall mounting)
Port Configurations	1 copper/ 1 fiber; 1 SFP/ 1 SFP (fiber only); 1 copper/1 fiber SFP	1 copper/ 1 fiber; 1 SFP/ 1 SFP (copper or fiber); 1 copper/1 fiber SFP	1 copper/1 fiber	4 copper/1 fiber; 4 copper/1 fiber SFP	2 copper/2 SFP
Size	Single-wide module; requires one slot	Double-wide module; requires two slots	0.83"H x 1.80"W x 3.35"D (2.11 x 4.57 x 8.51 cm)	1.64"H x 5.64"W x 8.95"D (4.2 x 14.3 x 22.7 cm)	0.86"H x 3.66"W x 3.88"D (2.2 x 9.38 x 9.94 cm)
Device Speed	10/100 Mbps Auto Negotiation w/ Selective Advertising on Copper Data and EXT MGMT ports; 100 Mbps Fiber port	10/100/1000 Mbps Auto Negotiation w/ Selective Advertising on Copper Data and EXT MGMT ports; 1000 Mbps Fiber port	10/100 Mbps Auto Negotiation w/ Selective Advertising on Copper Data Port; 100 Mbps Fiber port	10/100/1000 Mbps Auto Negotiation w/ Selective Advertising on Copper Data Port; 1000 Mbps Fiber port	10/100/1000 Auto Negotiation on Copper Data Ports; 100/1000 Mbps SFP Ports
Fiber Distance	Up to 100 km; SSFX up to 60 km	Up to 100 km; SSFX up to 80 km	Up to 80 km; SSFX up to 60 km	Up to 100 km; SSFX up to 80 km	SFP Dependent; Up to 120 km
Serial Port (RS-232)	Use the supplied RJ-45 to DB-9 adapter on the TX EXT MGMT port for serial configuration	DB-9 connector for serial configuration	Use supplied DB-9 to MiniJack connector for serial configuration	DB-9 connector for serial configuration	Use supplied DB-9 to MiniJack connector for serial configuration
# of VLAN Tags Supported	Allows user to specify 32, plus one for SNMP MGMT	Allows user to specify 32, plus one for SNMP MGMT	Allows user to specify 32, plus one for SNMP MGMT	Allows user to specify 64, plus one for SNMP MGMT	Port Based
Q-in-Q Mode/Extra Tagging	YES	YES	YES	YES (Two Level Qualified)	YES
Max Frame Length	Passes up to 1916 byte frames	Passes up to 12196 byte frames	Passes up to 1916 byte frames	Passes up to 12196 byte frames	Passes up to 10240 byte frames
Full range VLAN IDs	Supports 1 to 4,096	Supports 1 to 4,096	Supports 1 to 4,096	Supports 1 to 4,096	Supports 1 to 4,096
Rate Limiting	Bi-directional bandwidth limiting in 32 Kbps increments to full line rate	Bi-directional bandwidth limiting in 244 Kbps increments to full line rate (at Gigabit speeds)	Bi-directional bandwidth limiting in 32 Kbps increments to full line rate	Bi-directional bandwidth limiting in 32 Kbps increments to full line rate	Not available with current firmware revision
Management Port	Via copper or fiber port (DIP Switch selectable)	Via copper or fiber port (DIP Switch selectable)	Fiber-Uplink Port only	User selectable Fiber-Uplink Port	Via copper or fiber port (User selectable)
Power Options	Through Chassis	Through Chassis	AC Adapter, DC Terminal Block, USB, PoE	Internal AC Power, DC Terminal Block	AC Adapter, DC Terminal Block, USB, IE-Power/5V Module
Unified Management Agent **(Secure IP-Less Management)**	Yes, capable with the use of an iMediaChassis or as a remote	Yes, capable with the use of an iMediaChassis or as a remote	Yes, capable as a remote device	Yes, capable as a remote device	Yes, capable as a remote device
Host/Remote Capabilities	Host, Remote or Standalone. As a host, can be paired with another iMcV-FiberLinX-II, IE-MiniFiberLinX-II or an AccessEtherLinX	Host, Remote or Standalone. Must be paired with another iMcV-Giga-Fiber-LinX when in Host/Remote mode	Remote or Standalone. Can be paired with a Host iMcV-FiberLinX-II	Remote or Standalone. Can be paired with a Host iMcV-Giga-FiberLinX-II	Remote or Standalone. Can be paired with a Host iMcV-Giga-FiberLinX-II
VLAN Tag EtherType Control	YES (8100, 88a8, 9100, 9200)	NO	YES (8100, 88a8, 9100, 9200)	NO	YES (User Definable)
QoS Types	YES	YES	NO	YES	NO
Last Gasp	YES*	NO	YES*	YES	YES
DIN Rail Mountable	When used in IE-MediaChassis/1	NO	YES	NO	YES
Temperature Range	+32º to +122º F (0º to +50º C)	+32º to +122º F (0º to +50º C)	-31º F to +158º F (0º to +50º C) AC Adapter -49º to +185º F (-45º to +85º C) DC Telco -31º F to +158º F (-35º C to +70º C) DC Power	+32º to +122º F (0º to +50º C)	+14º to +122º F (-10º to +50º C) AC Adapter -40º F to +185º F (-40º C to +85º C) DC Power

* Last Gasp TRAP feature is model specific.