Networks

MEDIA CONVERSION

Double your media conversion capabilities with the IE-iMcV-2xLIM SNMP-manageable media converter modules.

Features and Benefits

Cost-effective and flexible
- Functions as two independent copper to fiber media converters, thus doubling port density in the iMediaChassis and MediaChassis product lines
- Low latency reduces issues with latency-sensitive applications (e.g., client server, VoIP, video, etc.)
- Interchangeable SFP modules allow for multiple fiber type conversion options (single-mode, multi-mode, long haul, short haul, etc.)
- Extended operating temperatures
- Ideal for use with IMC Networks' MSA or Cisco Compliant SFPs

Maximizes network uptime
- 100 Mbps SFPs and 2xLIM modules are hot-swappable; no need to power-down chassis when upgrading or troubleshooting a single module

IMC's managed chassis line allows for easy configuration when used with GUI-based iView[2]
- Monitor links and receive vital traffic, health information and notification should problems occur
- SNMP v1 and V2c compatible

Eases Troubleshooting
- *Far End Fault* provides notification of Far End Link Loss on the fiber port.
- *Link Fault Pass-Through (LFPT)* is a troubleshooting feature that monitors the copper (TXLL) and fiber (FXLL) ports of the unit; if a port loses LINK, the unit disables the transmitting signal on the other port and notifies the user via LED
- *Config Control* retains the latest module configuration if it's replaced, regardless of how the initial configuration was setup; whether by DIP Switch or SNMP Management Module
- Compatible with Digital Diagnostics Monitoring Interface (DDMI) on select SFPs
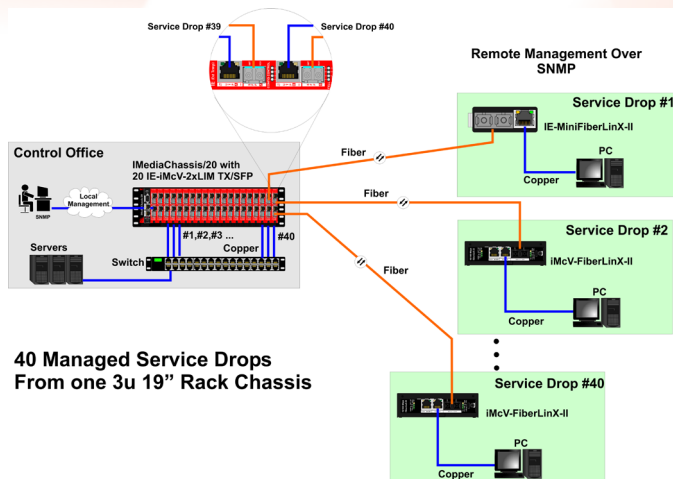
* SFPs sold separately

The IE-iMcV-2xLIM, TX/SFP is a Fast Ethernet module which provides two conversions of 100Base-TX twisted pair to 100Base-FX/SX single-mode or multi-mode fiber. There are two sets of ports, RJ-45 (copper) and SFP (fiber). The SFP port supports all MSA and Cisco compliant, SC, LC and single-fiber 155 Mbps SFPs. Designed as a Layer 1 device, the IE-iMcV-2xLIM is entirely transparent to both Layer 2 and Layer 3 protocols. The IE-iMcV-2xLIM is SNMP-manageable and can be installed into the modular, SNMP-manageable iMediaChassis or the MediaChassis series.

Easily configure and manage converters with the GUI-based iView[2]. As an SNMP management application, iView[2] gives network managers the ability to monitor and control IMC Networks' products. iView[2] runs standalone on Windows NT/XP/2000 or as a Web Server running under IIS. For assistance in selecting the right version of iView[2] for your operating system, visit our web site at: http://www.imcnetworks.com/Products/iView2.cfm

Application Example

Populating a iMediaChassis/20 with 20 IE-iMcV-2xLIM modules doubles the number of lines that can be served in an ISP network environment at a lower cost. Additionally, it improves remote management through the use of the FEF and LFPT functions and through DDMI on select SFPs.

Technical Specifications

- 2 x RJ-45 and 2 x SFP ports (SFPs sold separately)
- IEEE 802.3u 100Base-T over twisted pair
- IEEE 802.3u 100Base-FX or SX over twisted pair
- AutoCross for MDI/MDIX
- LinkLoss, Far End Fault & Auto Negotiation
- Link Fault Pass-Through (LFPT)
- Supports Config Control
- MDI/MDIX switch
- DIP Switch selectable Auto Negotiation on copper port
- Features low latency
- Supports Half- and Full-Duplex operation
- Supports Jumbo packets (No size limit)
- Install in any iMediaChassis or MediaChassis
- Supports GUI-Based iView[2]
- Includes diagnostic LEDs
- Hot-swappable architecture

Shipping Weight:
0.30 lbs (.11 kg)

Regulatory Approvals:
- FCC Class B
- UL, CSA, CE
- TUV

Standards Compliance
SFP-MSA SFP standard (September 14, 2000)
SFF-8472 DDMI standard (Revision 1.0)
IEEE 802.3

Operating Temperature:
-40° F to +176° F (-40° C to +80° C)
5% to 95% (non-condensing), 0 – 10,000 ft. altitude

Storage Temperature:
-40° F to +176° F (-40° C to +80° C);
5% to 95% (non-condensing)

Input Voltage:
100 to 240 VAC 50/60Hz (External Power Supply)
5 VDC ± 5%

Power Information:
Max Current: 0.80A

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
IE-iMcV-2xLIM, TX/SFP Modules		
850-18610	IE-iMcV-2xLIM, TX/SFP (requires two SFP/155 Modules) [§]	Varies

[§] SFP modules are sold separately. For more information on IMC Networks' SFPs,
go to: www.imcnetworks.com/Products/product.cfm?family=32

IE-SFP Modules: 100 to 155 Mbps

PART NUMBER W/ DDMI	PART NUMBER W/O DDMI	PORT DESCRIPTION	FIBER	DISTANCE	POWER BUDGET (db)
808-38101	808-38111	MM850	LC	2 km	14.5
808-38102	808-38112	MM1300	LC	2 km	11
808-38103	808-38113	SM1310	LC	20 km	21
808-38104	808-38114	SM1310/PLUS	LC	40 km	31
808-38105	808-38115	SM1550/LONG	LC	80 km	31
808-38525	808-38535	SSFX-SM1310/1550/LONG	LC	60 km	31
808-38526	808-38536	SSFX-SM1550/1310/LONG	LC	60 km	31

FCS — FREE Fiber Consulting Services · RoHS · Made in USA · 6-YEAR Comprehensive Warranty · ISO 9001:2008 REGISTERED

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