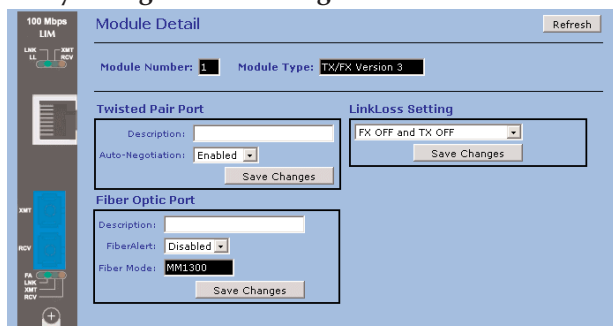# iMcV Modules Series
10Mbps, 100 Mbps and 1000 Mbps Ethernet
SNMP-Manageable Media Converters

Monitor and control all connections from a central site with *iMcV Series* SNMP-manageable media conversion modules.

Satisfying today's networking needs while preparing for tomorrow's requirements in cabling bandwidth, distance and security, can make designing and installing the physical layer of networks a daunting task. The decreasing cost of fiber optic cabling and switching equipment makes all-optical LANs the obvious choice for future-proofing your network. Replacing legacy equipment and your wiring infrastructure is a costly choice that could produce too much network downtime. Managed media conversion allows you to implement new technologies on your existing network and monitor all connections to keep networks up-to-date and running in peak condition. The *iMcV* series includes:

- **iMcV-PIM** converts copper to fiber at a data rate of 10 Mbps
- **iMcV-LIM** converts copper to fiber at a data rate of 100 Mbps
- **iMcV-LIM 10/100** converts 10 Mbps copper to 10 Mbps fiber OR converts 100 Mbps copper to 100 Mbps fiber
- **iMcV-Gigabit** converts copper to fiber at a data rate of 1.25 Gbps.

Easily configure and manage converters with the GUI-based *iView²*:
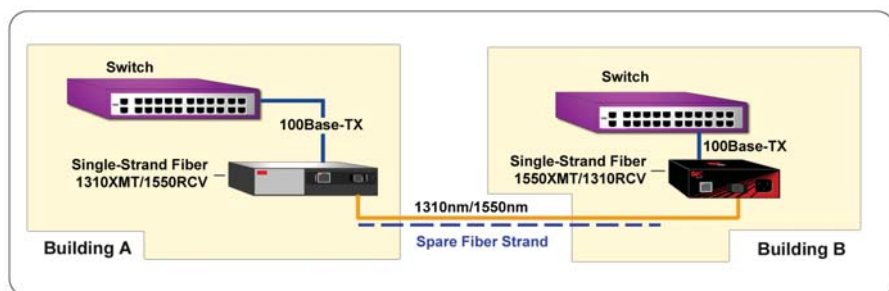

As an SNMP management application, *iView²* gives network managers the ability to monitor and control IMC Networks' products. *iView²* runs standalone on Windows NT/XP/2000, as a standalone Java Application for other operating systems, as a snap-in module for HP OpenView, as a Web Server running under IIS or as a Java Web Servlet. For assistance in selecting the right version of *iView²* for your operating system, please visit our web site at: **http://www.imcnetworks.com/go/iview2**

Application Example
These iMcV series modules make the critical connection between twisted pair and fiber optics. Most are also available in a **single-strand fiber** version which allows two wavelengths to share one fiber strand — Full-Duplex data travels on different wavelengths (1310 nm and 1550 nm)— doubling the capacity of fiber. Deploy single-strand fiber products in pairs, or connect two compatible IMC Networks single-strand fiber products.

Meets a variety of installation requirements
- Supports Ethernet or Fast Ethernet
- Available for multi-mode or single-mode fiber
- Double fiber capacity with single-strand fiber versions
- ST, SC or Small Form Factor fiber connectors
- Supports very long fiber distances

Easy to configure and manage with GUI-based iView
- Up and running in less than 5 minutes
- Monitor links and receive vital traffic and health information and notification should problems occur

Maximizes network uptime
- Modular, hot-swappable architecture reduces operational costs associated with product installation, upgrades and maintenance

Eases Troubleshooting
- *LinkLoss and FiberAlert* features, plus SNMP management and LEDs, assist in diagnosing problems on fiber optic networks

Technical Specifications

iMcV-PIM
- 10Base-T twisted pair
- 10Base-FL fiber
- MDI-II/MDI-X switch
- Features LinkLoss and Pulsing FiberAlert

iMcV-LIM
- 100Base-TX twisted pair
- 100Base-FX or SX fiber
- AutoCross for MDI-II/MDI-X
- Features LinkLoss and FiberAlert
- Features Auto-Negotiation

iMcV-LIM, 10/100
- 10Base-T twisted pair
- 10Base-FL fiber
- 100Base-TX twisted pair
- 100Base-FX or SX fiber
- MDI-II/MDI-X switch
- Features Link Fault Detection and Transparency
- Features Auto-Negotiation

iMcV-Gigabit
- 1000Base-T twisted pair
- 1000Base-LX or SX fiber
- AutoCross for MDI-II/MDI-X
- Features FiberAlert

All Modules
- **Connectors:** RJ-45 and ST, SC or MT-RJ
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Available for single-strand fiber
- Installs in any iMediaChassis, iMediaCenter or MediaChassis
- Support GUI-Based *iView²*
- Support Half- and Full-Duplex operation
- Include diagnostic LEDs
- Include hot-swappable architecture

Shipping Weight: .30 lbs (.11 kg)
Regulatory Approvals:
- FCC Class A
- UL/cUL, CSA, CE

Operating Temperature:
32° to 122°F (0° to +50°C)**;** 5% to 90% (non-condensing), 0 – 10,000 ft. altitude
Storage Temperature:
-13° to +158°F (-25° to +70°C); 5 to 90% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the number in the **[XX]** denotes an approximate fiber distance based on industry-standard fiber specifications and worst-case (connector loss, aged fiber, splices, etc.) installations. You can typically achieve substantially longer distances. Actual distances may vary for each installation. For complete power budgets and information on calculating specific distances, please visit web site our at **www.imcnetworks.com/go/fcs** or contact IMC Networks Fiber Consulting Services at 949-465-3000. Twisted pair distance is 100 meters.

Ordering Information

10 Mbps Modules
50-14940	iMcV-PIM, TP/FO-MM850-ST	[4 Km]
50-14941	iMcV-PIM, TP/FO-MM850-SC	[4 Km]
50-14942	iMcV-PIM, TP/FO-MM1300-ST	[10 Km]
50-14943	iMcV-PIM, TP/FO-MM1300-SC	[10 Km]
50-14944	iMcV-PIM, TP/FO-SM1310/PLUS-ST	[40 Km]
50-14945	iMcV-PIM, TP/FO-SM1310/PLUS-SC	[40 Km]
50-14946	iMcV-PIM, TP/FO-SM1310/LONG-ST	[80 Km]
50-14947	iMcV-PIM, TP/FO-SM1310/LONG-SC	[80 Km]
50-14949	iMcV-PIM, TP/FO-SM1550/LONG-SC	[100 Km]

100 Mbps Modules
50-14920	iMcV-LIM, TX/FX-MM1300-ST	[2 Km]
50-14921	iMcV-LIM, TX/FX-MM1300-SC	[2 Km]
50-14920-MT	iMcV-LIM, TX/FX-MM1300-MT	[2 Km]
50-14922	iMcV-LIM, TX/SX-MM850-ST	[300 m]
50-14923	iMcV-LIM, TX/SX-MM850-SC	[300 m]
50-14926	iMcV-LIM, TX/FX-SM1310/PLUS-ST	[40 Km]
50-14927	iMcV-LIM, TX/FX-SM1310/PLUS-SC	[40 Km]
50-14932	iMcV-LIM, TX/FX-SM1310/LONG-ST	[80 Km]
50-14933	iMcV-LIM, TX/FX-SM1310/LONG-SC	[80 Km]
50-14931	iMcV-LIM, TX/FX-SM1550/LONG-SC	[100 Km]

Single-Strand Fiber Modules[1]
49-14714	iMcV-LIM, TX/SSFX-SM1310-SC	[20 Km]
49-14715	iMcV-LIM, TX/SSFX-SM1550-SC	[20 Km]
49-14716	iMcV-LIM, TX/SSFX-SM1310/PLUS-SC	[40 Km]
49-14717	iMcV-LIM, TX/SSFX-SM1550/PLUS-SC	[40 Km]
49-14718	iMcV-LIM, TX/SSFX-SM1310/LONG-SC	[60 Km]
49-14719	iMcV-LIM, TX/SSFX-SM1550/LONG-SC	[60 Km]

10 or 100 Mbps Modules
50-14244	iMcV-LIM, 10/100-SSFX-SM1310-SC	[20 Km]
50-14245	iMcV-LIM, 10/100-SSFX-SM1550-SC	[20 Km]
50-14246	iMcV-LIM 10/100-SSFX-SM1310/PLUS-SC	[40 Km]
50-14247	iMcV-LIM 10/100-SSFX-SM 1550/PLUS-SC	[40 Km]
50-14260	iMcV-LIM, 10/100-MM850-ST	[300 m]
50-14261	iMcV-LIM, 10/100-MM850-SC	[300 m]
50-14262	iMcV-LIM, 10/100-MM1300-ST	[2 Km]
50-14263	iMcV-LIM, 10/100-MM1300-SC	[2 Km]
50-14262-MT	iMcV-LIM, 10/100-MM1300-MT	[2 Km]
50-14267	iMcV-LIM, 10/100-SM1310/PLUS-ST	[40 Km]
50-14268	iMcV-LIM, 10/100-SM1310/PLUS-SC	[40 Km]
50-14269	iMcV-LIM, 10/100-SM1310/LONG-ST	[80 Km]
50-14270	iMcV-LIM, 10/100-SM1310/LONG-SC	[80 Km]
50-14274	iMcV-LIM, 10/100-SM1550/LONG-SC	[100 Km]

1000 Modules
50-14913	iMcV-Gigabit, TX/SX-MM850-SC	[300 m]
50-14914	iMcV-Gigabit, TX/LX-SM1310-SC	[10 Km]
50-14915	iMcV-Gigabit, TX/LX-SM1310/PLUS-SC	[40 Km]
50-14917	iMcV-Gigabit, TX/LX-SM1550/LONG-SC	[70 Km]

Single-Strand Fiber[1]
50-14844	iMcV-Gigabit, TX/SSLX-SM1310-SC	(1310xmt/1550rcv)
50-14845	iMcV-Gigabit, TX/SSLX-SM1550-SC	(1550xmt/1310rcv)
50-14846	iMcV-Gigabit, TX/SSLX-SM1310/PLUS-SC	(1310xmt/1550rcv)
50-14847	iMcV-Gigabit, TX/SSLX-SM1550/PLUS-SC	(1550xmt/1310rcv)
50-14848	iMcV-Gigabit, TX/SSLX-SM14910/LONG-SC	(1490xmt/1550rcv)
50-14849	iMcV-Gigabit, TX/SSLX-SM1550/LONG-SC	(1550xmt/1490rcv)
50-14850	iMcV-Gigabit, TX/SSLX-SM1490/XLONG-SC	(1490xmt/1550rcv)
50-14851	iMcV-Gigabit, TX/SSLX-SM1550/XLONG-XC	(1490xmt/1550rcv)

[1]*These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product. For more information go to:* www.imcnetworks.com/products/SSFX.cfm

When ordering the RoHS version of a product, add an "8" to the front of the standard part number, eg. 56-10730 becomes 856-10730. Call for RoHS product availability.

Related Products — iMcV Series Modules

The *iMcV Series* includes 10 Mbps (**iMcV-PIM**), 100 Mbps (**iMcV-LIM**), autosensing 10/100 Mbps (**iMcV-LIM 10/100**), 155 Mbps ATM (**iMcV-ATM**) and Gigabit Ethernet (**iMcV-Gigabit)** copper-to-fiber media conversion modules as well as 10/100 and 10/100/1000 switching media converters (**MediaLinX** series). T1/E1/J1 media converters (**iMcV-T1/E1/J1**), DS3/E3 media converters (**iMcV-DS3/E3**) and VDSL to Ethernet media converters (**iMcV-VDSL-LANextender)** are also available. In addition, IMC Networks has the most extensive line of protocol-independent (**iMcV-S2MMs, iMcV-S2SMs** and **iMcV-M2MMs**) fiber mode conversion modules. The *iMcV* series also includes: **iMcV-FiberLinX, iMcV-WDM** and **iMcV-FiberWay** modules. Single-strand fiber versions are available for many of our media converters.

For more information on the various products in the *iMcV Series,* please refer to the IMC Networks Web site at: **http://www.imcnetworks.com/Products/ProdDir.cfm**

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