

The iMcV Series of fiber mode conversion modules allow you to easily extend your network to remote locations by converting multi-mode fiber to single-mode fiber.



## Features and Benefits

### Cost-effective and flexible

- Use multi-mode fiber equipment and implement single-mode fiber only where longer distances are needed

### Protocol-Independent

- Modules support various transmission speeds— from 10 Mbps Ethernet up to Gigabit Ethernet

### Meets a multitude of installation requirements

- Available with ST, SC or Small Form Factor fiber connectors
- Single-strand fiber versions available
- CWDM fiber versions available
- Supports very long fiber distances

### Easy to configure and manage with GUI-based iView<sup>2</sup>

- Up and running in less than 5 minutes
- Receive vital traffic and health information, as well as traps if problems should occur

### Maximizes network uptime

- Modules are hot-swappable; no need to power-down chassis when upgrading or trouble-shooting a single module

In today's dynamic networks, changing requirements are a fact of life. The multi-mode fiber products and cabling which were the most cost-effective and sound choice for your network yesterday may no longer give you the flexibility you require when adding remote offices today. Easily overcome the distance limitations inherent to multi-mode fiber by converting to single-mode fiber. Fiber mode converters are the solution.

### Extend the reach of your network without replacing multi-mode fiber equipment:

As an economical alternative to using a switch with single-mode fiber ports, simply install an IMC Networks fiber mode converter into your multi-mode fiber network. This enables you to easily connect to single-mode cabling and achieve distances up to 80 km. Our fiber mode converters also give you the flexibility to add single-mode fiber links only where needed. The iMcV series of fiber mode conversion modules includes:

#### iMcV-S2MM:

- Converts multi-mode to single-mode fiber
- Supports 10 Mbps Ethernet to 155 Mbps ATM (OC-3) and from 622 Mbps to 1.25 Gbps Gigabit Ethernet

#### iMcV-M2MM:

- Converts multi-mode to multi-mode fiber
- 10 Mbps Ethernet to 155 Mbps ATM (OC-3)

#### iMcV-S2SM:

- Converts single-mode to single-mode fiber
- Supports 10 Mbps Ethernet to 155 Mbps ATM (OC-3) and from 622 Mbps to 1.25 Gbps Gigabit Ethernet

Hot-swappable fiber mode conversion modules significantly reduce operation costs by allowing other modules within the same chassis to remain up and running during product upgrades, maintenance and troubleshooting.

# Technical Specifications

- Includes protocol-independent operation
- Converts between dissimilar fiber modes and wavelengths: multi-mode to single-mode; multi-mode to single-mode; and single-mode to single-mode
- Ethernet, Fast Ethernet and ATM/OC-3
- OC-12, Gigabit Ethernet and FibreChannel
- 50/125 $\mu$ m or 62.5/125 $\mu$ m multi-mode fiber
- 9/125 $\mu$ m single-mode fiber
- Available for single-strand fiber
- Connectors: ST, SC or MT-RJ
- Installs in any iMediaChassis or MediaChassis
- Supports GUI-Based iView<sup>2</sup>
- Includes diagnostic LEDs
- Includes hot-swappable architecture

## Regulatory Approvals:

FCC Class A  
UL/cUL, CSA, CE

## Shipping Weight:

0.30 lbs (.11 kg)

## Operating Temperature:

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

## Storage Temperature:

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

# 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](http://www.imcnetworks.com/go/fcs) or contact IMC Networks Fiber Consulting Services at 949-465-3000.

# Ordering Information

PART #	SM PORT 1DESC	SM DIST	MM PORT 2 DESC	FIBER TYPE	MM DIST
<b>iMcV-M2MM/155 (Multi-to-Multi-mode) 10 Mbps to 155 Mbps Protocol Independent</b>					
850-14510	MM1300	5 km	MM850	ST	2 km
850-14511	MM1300-SC	5 km	MM850	SC	2 km

PART #	SM PORT 1DESC	SM DIST	MM PORT 2 DESC	FIBER TYPE	MM DIST
<b>iMcV-S2MM/155 (Single-to-Multi-mode) 10 Mbps to 155 Mbps Protocol Independent</b>					
850-14520	SM1310/PLUS	40 km	MM1300	ST	5 km
850-14530	SM1310/PLUS	40 km	MM1300	SC	5 km
850-14540	SM1310/LONG	80 km	MM1300	ST	5 km
850-14550	SM1310/LONG	80 km	MM1300	SC	5 km
850-14555	SM1550/LONG	80 km	MM1300	SC	5 km
850-14560	SM1310/PLUS	40 km	MM850	ST	2 km
850-14570	SM1310/PLUS	40 km	MM850	SC	2 km
850-14580	SM1310/LONG	80 km	MM850	ST	2 km
850-14590	SM1310/LONG	80 km	MM850	SC	2 km
850-14595	SM1310/LONG	80 km	MM850	SC	2 km
<b>Single-Strand Fiber</b>					
850-14532	SSFx-SM1310-SC (1550rcv)	20 km	MM1300	SC	5 km
850-14533	SSFx-SM1550-SC (1310rcv)	20 km	MM1300	SC	5 km
850-14535	SSFx-SM1310/PLUS (1550rcv)	40 km	MM1300	SC	5 km
850-14536	SSFx-SM1550/PLUS (1310rcv)	40 km	MM1300	SC	5 km

PART #	SM PORT 1DESC	SM DIST	SM PORT 2 DESC	FIBER TYPE	SM DIST
<b>iMcV-S2SM/155 (Single-to-Single-mode) 10 Mbps to 155 Mbps Protocol Independent</b>					
850-14519	SM1310/PLUS	40 km	SM1310/PLUS	SC	40 km
850-14505	SM1310/LONG	80 km	SM1310/LONG	SC	80 km
850-14513	SM1550/LONG	80 km	SM1310/PLUS	SC	220/550 m
850-14514-LC	SM1550/LONG	80 km	SM1310/LONG	LC	80 km
<b>Single-Strand Fiber</b>					
850-14515	SSFx-SM1310 (1550rcv)	20 km	SM1310/PLUS	SC	40 km
850-14516	SSFx-SM1550 (1310rcv)	20 km	SM1310/PLUS	SC	40 km
850-14517	SSFx-SM1310/PLUS (1550rcv)	40 km	SM1310/LONG	SC	80 km
850-14518	SSFx-SM1550/PLUS (1310rcv)	40 km	SM1310/LONG	SC	80 km

PART #	SM PORT 1DESC	SM DIST	SM PORT 2 DESC	FIBER TYPE	SM DIST
<b>iMcV-S2SM/1250 (Single-to-Single-mode) 622 Mbps to 1.25 Gbps Protocol Independent</b>					
859-14803	LX-SM1310/PLUS	40 km	LX-SM1310/PLUS	SC	40 km
859-14804	LX-SM1310/PLUS	40 km	LX-SM1550/LONG	SC	80 km
859-14819	LX-SM1310	15 km	LX-SM1550/XLONG	SC	100 km
<b>Single-Strand Fiber</b>					
859-14820	SSLX-SM1310 (1550rcv)	15 km	LX-SM1310/PLUS	SC	40 km
859-14821	SSLX-SM1550 (1310rcv)	15 km	LX-SM1310/PLUS	SC	40 km
859-14822	SSLX-SM1310/PLUS (1550rcv)	40 km	LX-SM1310/PLUS	SC	40 km
859-14823	SSLX-SM1550/PLUS (1310rcv)	40 km	LX-SM1310/PLUS	SC	40 km

PART #	SM PORT 1DESC	SM DIST	MM PORT 2 DESC	FIBER TYPE	MM DIST
<b>iMcV-S2MM/1250 (Single-to-Multi-mode) 622 Mbps to 1.25 Gbps Protocol Independent</b>					
859-14799	LX-SM1310	15 km	SX-MM850	SC	550 m
859-14800	LX-SM1310/PLUS	40 km	SX-MM850	SC	550 m
859-14801	LX-SM1550/LONG	80 km	SX-MM850	SC	550 m
859-14810	LX-SM1550/XLONG (1310rcv)	100 km	SX-MM850	SC	550 m
<b>Single-Strand Fiber</b>					
859-14806	SSLX-SM1310 (1550rcv)	15 km	SX-MM850	SC	220/550 m
859-14807	SSLX-SM1550 (1310rcv)	15 km	SX-MM850	SC	220/550 m
859-14808	SSLX-SM1310/PLUS (1550rcv)	40 km	SX-MM850	SC	220/550 m
859-14809	SSLX-SM1550/PLUS (1310rcv)	40 km	SX-MM850	SC	220/550 m

CWDM wavelengths are also available. Contact IMC Networks for a complete list of part numbers.



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