

IMC-SM1E1FSC-LG, IMC-MM1E1FSC-LG2

Gigabit Ethernet to Fiber Media Converter Line Card, 1 Ethernet, 1 SC Fiber Ports

The Ethernet to Fiber Media Converters are designed to provide reliable and stable operation in indoor environments. Equipped with one 10/100/1000 Base-T RJ45 port and one 1000Mbps uplink SC fiber port, these are available in different optical modules to choose from, such as Multimode Dual Fiber, Singlemode Dual Fiber and Singlemode Single Fiber. The Line Card media converters are installed inside a Media Converter Chassis providing a convenient and space saving installation.

These media converters are easy to use with features such as plug-and-play, auto-negotiation and link down detection. They can be used in a wide range of large scale applications such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping and metallurgy.

Features and Benefits

- **Ethernet to Fiber**
10/100/1000 Ethernet and 1000M SC Fiber ports offers high speed conversion between serial interfaces and supports full and half duplex operations based on IEEE802.3x
- **Network Extension**
Meets the network extension needs for Ethernet and Fiber interfaces.
- **Ease of Use**
Plug and Play, no configuration required and unmanaged media converter
- **Stable and Reliable**
Low Power Consumption, Quiet Operation, LED Indicators, Port Lightning Protection, IP30
- **Applications**
Intelligent transportation, rail transit, power industry, mining, petroleum, shipping and metallurgy

CONSTRUCTION



Media Converter Chassis with 16 slots

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ETHERNET INTERFACE	
10/100/1000BaseT RJ45 Port	1, Data
1000Mbps Uplink Fiber Port	1, Data, SC Type
Magnetic Isolation Protection	1.5kV (built-in)
Ethernet Port Feature	10/100/1000Base-T, Auto Sensing, Full/Half Duplex MDI/MDI-X Self Adaption
Optical Fiber Port	1.25Gbps, Multimode Dual Fiber, Singlemode Dual Fiber and Singlemode Single Fiber
Frequency/Max Distance	Multimode:850nm/500m,1310nm/2KM Singlemode:1310nm/40KM;1550nm/120KM
Forwarding Mode	Store and Forward at Full Wire Speed
Switching Capacity	2.0Gbps
Forwarding Rate @ 64 byte	3.0Mpps
MAC	2K
Buffer Memory	1M
Jumbo Frame	1632 bytes
ELECTRICAL	
Power Supply	Centralized provided by Chassis 16-slot 2U type
Power Consumption	3.5W (5V DC)
LED Indicator	Power: Green, Network Link: Green
ENVIRONMENTAL	
Operating Temperature (C)	-20 to +55
Storage Temperature	-20 to +75
Operating Humidity	5% - 95% non condensing
Operational Altitude	3000m
MECHANICAL	
Dimensions (mm)	80 (w) x 3(h) 100(d)
Weight (g)	30
ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
IMC-MM1E1FSC-LG2	Infinique Ethernet to Fiber Media Converter Line Card, 1x 10/100/1000 Ethernet Port, 1x 1000M SC FX Port, Multimode, Dual Fiber, 550M
IMC-SM1E1FSC-LG2	Infinique Ethernet to Fiber Media Converter Line Card, 1x 10/100/1000 Ethernet Port, 1x 1000M SC FX Port, Singlemode, Dual Fiber, 20KM
IMC-SM1E1FSC-LG1TX	Infinique Ethernet to Fiber Media Converter Line Card Transmitter, 1x 10/100/1000 Ethernet Port, 1x 1000M SC FX Port, Singlemode, Single Fiber, 1310nm, 20KM
IMC-SM1E1FSC-LG1RX	Infinique Ethernet to Fiber Media Converter Line Card Receiver, 1 x 10/100/1000 Ethernet Port, 1x 1000M SC FX Port, Singlemode, Single Fiber, 1550nm, 20KM
IMC-CTR-16-2U	Infinique Media Converter Chassis, 16 Slots with Redundant Power Supplies, 2U Rack Mountable

OPTICAL FIBER	MULTIMODE	SINGLEMODE
Wavelength	850nm	1310nm
Tx Output (dBm)	-3 to -10	-3 to -9
Rx Sensitivity (dBm)	-3 to -20	-3 to -21
Link Budget (dBm)	10	12
Typical Distance	500m	40km
NETWORK PROTOCOL		
IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3ab 1000Base-T, IEEE802.3u 100Base-TX; IEEE802.3u 100Base-FX; IEEE802.3z 1000Base-X, IEEE802.3x		
STANDARDS COMPLIANCE		
IEC61000-4-2 ESD: ±8kV contact discharge, ±15kV air discharge IEC61000-4-3 RS:10V/m(80~1000MHz) IEC61000-4-4 EFT: power cable: ±4kV; data cable: ±2kV IEC61000-4-5 Surge: power cable:CM±4kV/DM±2kV; data cable: ±4kV IEC61000-4-6 Radio Frequency Transmission:10V(150kHz~80MHz) IEC61000-4-8 Power Frequency Magnetic Field:100A/m;1000A/m, 1s to 3s IEC61000-4-9 Pulsed Magnet Field:1000A/m IEC61000-4-10 Damped Oscillation:30A/m 1MHz IEC61000-4-12/18 Shockwave: CM 2.5kV,DM 1kV IEC61000-4-16 Common Mode Transmission:30V; 300V,1s		
Emissions	CCC; CE FCC Part 15 Subpart B Class B EN 55022:2010 IC ICES-003 Class B IEC61000-6-2 Common Industrial Standard	
Immunity	EN 55024:2010	
Safety	EN 60950-1, UL 60950-1, EU: 2001/95/EC GPPSD RoHS	



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