

# IMC-SM1E1FLC-SP

# Ethernet to Fiber Industrial Media Converter 1 Ethernet, 1 SC Duplex Port

The IMC-SM1E1FLC-SP is an industrial Ethernet to fiber media converter designed to provide reliable and stable operation in harsh environments. Equipped with one 10/100Base-T RJ45 port and one SC Duplex Adapter port it can be easily mounted on a DIN rail or equipment box.

Available as standalone type, these are easy to install with features such as plug-and-play, auto-negotiation and link down detection. It can be used in a wide range of applications such as intelligent transportation, rail transit, power industry, mining, petroleum, shipping and metallurgy.

# Features and Benefits

#### • Ethernet to Fiber

Ethernet and SC 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.

#### Industrial Grade

DIN-Rail mountable, designed for harsh environments, can operate in high temperatures and provides EMI immunity

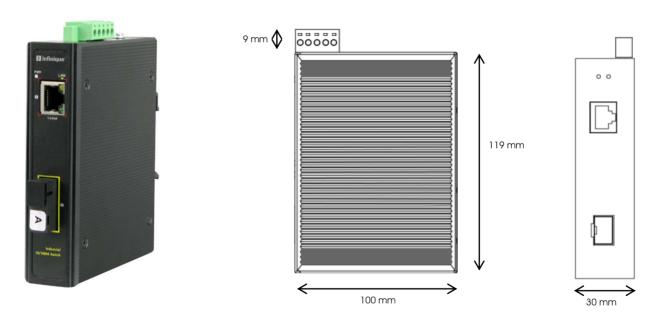
Stable and Reliable

Aluminum Enclosure, Redundant Power Inputs, Low Power Consumption, Quiet Operation, LED Indicators, Port Lightning Protection,

### Applications

Intelligent transportation, rail transit, power industry, mining, petroleum, shipping and metallurgy

## CONSTRUCTION



# **IMC-SM1E1FLC-SP**

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ETHERNET INTERFACE			<b>OPTICAL FIBER</b>	Multimode	Singlemode
10/100BaseT RJ45 Pc	ort	1, Data	Wavelength	850nm	1310nm
155M Uplink SC Port		1, Singlemode, Duplex	Tx Output (dBm)	-3 to -10	-3 to -9
Magnetic Isolation P	rotection	1.5kV (built-in)	Rx Sensitivity (dBm)	-3 to -20	-3 to -21
Ethernet Port Feature		10/100Base-T, Auto Sensing, Full/Half Duplex MDI/ MDI-X Self Adaption	Link Budget (dBm)	10	12
SC Port Distance		1310nm: 0 to 40 km, 1550nm: 0 to 120 km	Typical Distance	500m	20km
Forwarding Mode		Store and Forward at Full Wire Speed	NETWORK PROTOCOL		
Switching Capacity		1.6Gbps	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3u 100Base-FX; IEEE802.3x <b>STANDARDS COMPLIANCE</b>		
Forwarding Rate @ 64 byte		0.30Mpps			
MAC		1К			
Buffer Memory		768K			
Jumbo Frame		1536 bytes	IEC61000-4-2 ESD:±8kV contact discharge,±15kV air discharge IEC61000-4-3 RS:10V/m(80~1000MHz)		
		1000 Dyles	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)		
Power Consumption		Standby 3W, Operational 5W	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		
Power Source Power Point		DC12V-48V 2 x V+, V- Redundant DC			
Power Point Power Connector		5 Pin Industrial Phoenix Terminal			
Power Connector Power Connector Configuration		Default: 1/2 (+), 3/6 (-) optional: 4/5(+),7/8(-)			
Anti-Reverse Protection		Supported	Mechanical	IEC60068-2-6 Anti Vibration IEC60068-2-27 Anti Shock IEC60068-2-32 Free Fall CCC; CE	
Overload Current Protection		Supported			
		Power: Green, Network Link: Yellow, Fiber Port:			
LED Indicator		Green	Emissions	FCC Part 15 Subpart B Class B EN 55022:2010 IC ICES-003 Class B IEC61000-6-2 Common Industrial Standard	
ENVIRONMENTAL					
Operating Temperature (C)		-40 to +80			
Storage Temperature		-40 to +85	Immunity	EN 55024:2010	
Operating Humidity		5% - 95% non condensing	Safety		0-1, EU: 2001/95/EC GPSD
MECHANICAL				RoHS	
Dimensions (mm)		100 (w) x 119 (h) 30(d)			
Weight (g)		500			
Housing		Aluminum Die Cast			
Finish		Black Power Coat, RAL 9005			
Installation		Din Rail Mounting / Equipment Box			
Lightning Protection		6KV 8/20us			
Ingress Protection Rating		IP40			
MTBF					
Time		539,608 hrs			
ORDERING INFO	ORMATION				
PART NUMBER	DESCRIPTION				
IMC-SM1E1FLC-SP	Infinique Industrial Ethernet to Fiber Media Converter, 1 x 10/100Base-TX, 1 x SC Port, Singlemode, SC Duplex, 20KM, Din-Rail Mount, Excluding Power Supply				
IMC-MM1E1FLC-SP	Infinique Industrial Ethernet to Fiber Media Converter, 1 x 10/100Base-TX, 1 x SC Port, Multimode, SC Duplex, 500M, Din-Rail Mount, Excluding Power Supply				
IMC-PWR-12-12	Infinique Industrial Power Supply, 12VDC, 12W, DIN-Rail Mount				



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.