

IMC-SM2E1FLC-SP

Gigabit Ethernet to Fiber Industrial PoE+ Media Convertor, 2 Ethernet, 1 SFP Ports

The IMC-SM2E1FLC-SP is a full gigabit industrial PoE+Ethernet to Fiber media convertor designed to provide reliable and stable operation in harsh environments. Equipped with two 10/100/1000Base-T Ethernet ports and one 1000Base-X SFP port it can be easily mounted on a DIN-Rail or equipment box. The maximum PoE power supplied to each device connect to Ethernet port is 30W. It can automatically detect and recognize power compliant devices that meet the IEEE 802.3af/at standard. Supports PoE and PoE+ devices such as, CCTV Camera, Wireless AP, Webcam, VoIP and industrial sensor.

Available as standalone or line card types, it is 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

Gigabit Ethernet

Gigabit Ethernet and SFP 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

Intelligent PoE Power Supply

Priority PoE System, that supplies power first to high priority port when the power budget is insufficient

• Stable and Reliable

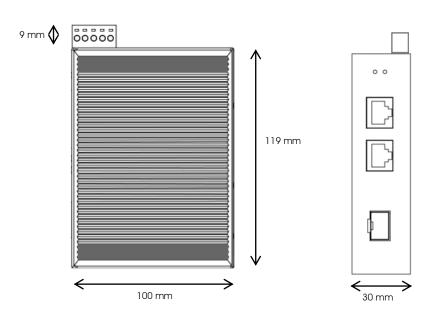
Aluminum Enclosure, Redundant Power Inputs, Low Power Consumption, Quiet Operation, LED Indicators, Port Lightning Protection,

Applications

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

CONSTRUCTION





IMC-SM2E1FLC-SP

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ETHERNET INTERFACE			
10/100/1000BaseT RJ45 Port	2. Data and PoE/PoE+		
100/1000Base SFP Port	1, Data		
Magnetic Isolation Protection	1.5kV (built-in)		
Ethernet Port Feature	10/100/1000Base-T, Auto Sensing, Full/Half Duple MDI/MDI-X Self Adaption		
SFP Port Feature	Gigabit SFP, Singlemode, Multimode, Single or Dual Fiber		
PoE Standard	IEEE802.3af/at		
Forwarding Mode	Store and Forward at Full Wire Speed		
Switching Capacity	8Gbps		
Forwarding Rate @ 64 byte	4.46Mpps		
MAC	8K		
Buffer Memory	1M		
ELECTRICAL			
Power Consumption	Standby 3W, Operational 35W		
PoE Power per Port	30W		
Power Source	DC12V-48V		
Power Point	2 x V+, V- Redundant DC		
Power Connector	5 Pin Industrial Phoenix Terminal		
Power Connector	Default: 1/2 (+), 3/6 (-) optional: 4/5(+),7/8(-)		
Anti-Reverse Protection	Supported		
Overload Current Protection	Supported		
LED Indicator	Power: Green, Network Link: Yellow, PoE: Green		
ENVIRONMENTAL			
Operating Temperature (C)	-40 to +80		
Storage Temperature	-40 to +85		
Operating Humidity	5% - 95% non condensing		
MECHANICAL			
Dimensions (mm)	100 (w) x 119 (h) 30(d)		
Weight (g)	350		
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		

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		20km	
NETWORK PROTO	COL			
IEEE802.3 10BASE-T; IEE IEEE802.3u 100Base-TX IEEE802.3ab 1000Base IEEE802.3z 1000Base-X IEEE802.3x	; -T			
STANDARDS COM	PLIANCE			
IEC61000-4-2 ESD:±8kV contact discharge,±15kV air discharge IEC61000-4-3 RS:10V/m(80~1000MHz) IEC61000-4-3 RS:10V/m(80~1000MHz) IEC61000-4-5 Surge: 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				
Mechanical	IEC60068-2-6 Anti Vibration IEC60068-2-27 Anti Shock IEC60068-2-32 Free Fall			
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 GPSD RoHS			

ORDERING INFORMATION		
PART NUMBER	DESCRIPTION	
IMC-SM2E1FLC-SP	Infinique Industrial PoE+ Ethernet to Fiber Media Converter, 2 x 10/100/1000 Base-TX PoE/PoE+ Ports, 1 x 1000 Base-FX Port, Singlemode, LC, 20 km, DIN-Rail Mount, Excluding Power Supply	
IMC-MM2E1FLC-SP	Infinique Industrial PoE+ Ethernet to Fiber Media Converter, 2 x 10/100/1000 Base-TX PoE/PoE+ Ports, 1 x 1000 Base-FX Port, Multimode, LC, 500 m, DIN-Rail Mount, Excluding Power Supply	
IMC-PWR-48-60	Infinique Industrial Power Supply, 48VDC, 60W, DIN-Rail Mount	



Infinique 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.