



PMC-2112

Industrial Ethernet Fiber Switch

Overview

PMC-2112 Industrial Fiber Ethernet Switch supports plug-and-play capability conformance to IEEE 802.3 (Ethernet) IEEE 802.3U (Fast-Ethernet) protocols. It provides handy connectivity with max. 12x10/100BaseT Ethernet ports and optional 2x100BaseX Fiber-optic ports. The PMC-2112 has been designed specifically for industrial automation and offers un-surpassed performance and reliability under the harshest industrial or commercial environments.

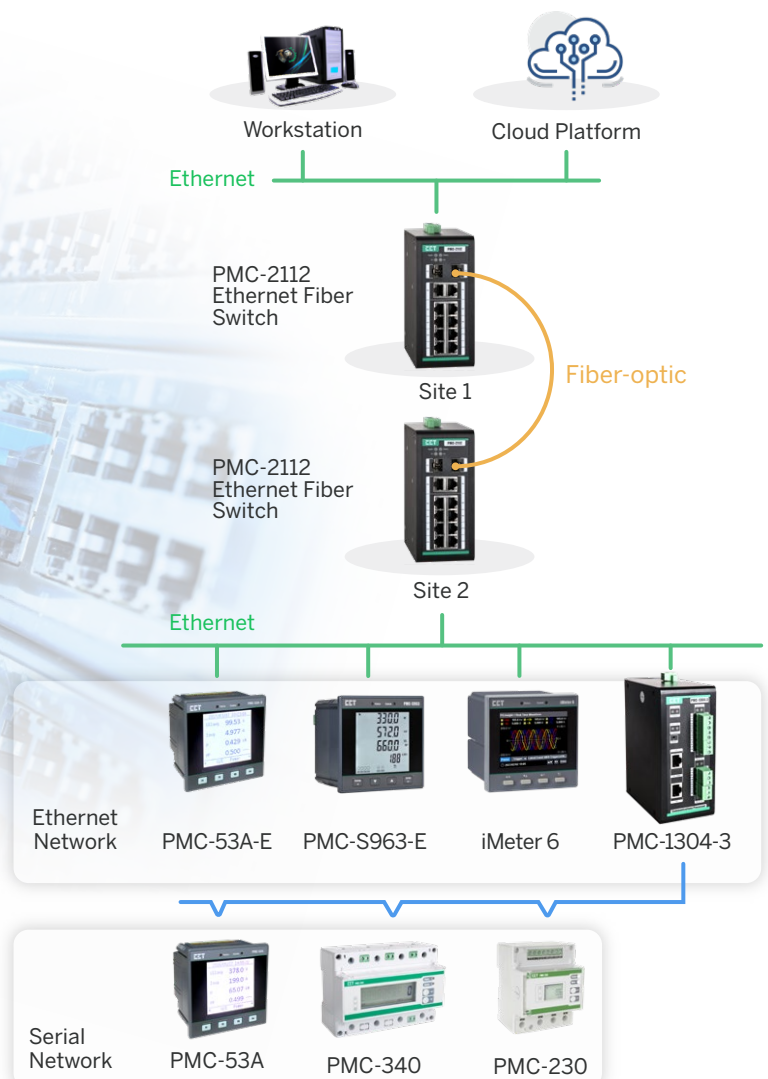
Features

- Max. 12xEthernet Ports supports 10/100Mbps Auto-negotiation
- Optional 2x10/100BaseX Fiber-optic port with LC connector for connection with Single-mode or Multi-mode SFP module
- Optional Dual independent power supply modules to minimize the risk of power supply failure, and ensure the system reliability with Loss-of-Power (LOP) alarm
- Plug and Play
- Standard DIN-Rail Mount or Panel Cutout Mount
- No-Fan design complies with industrial harsh environment
- 8kB MAC Address Table size and 2.4MB Cache Buffer
- Full-duplex flow control
- Auto MDI/MDIX
- 6kV ESD Protection

Applications

- Ethernet/Fiber conversion
- Extended Ethernet segment up to 20km
- Provide electrical isolation for substation, industrial, factory and building automation

Typical Application Diagram



Technical Specifications

Power Supply (L/+, N/-)	
Standard	95-250VAC/DC $\pm$ 10%, 47-440Hz
Burden	$\leq$ 5W

Communications		
Ethernet (P1 to P12)		
Connector	RJ45	
Speed	10/100Mbps Auto-negotiation	
Optional Fiber-optic Port (P1 to P2)		
Connector	LC (for use with SFP module)	
Speed	100Mbps	
Wavelength	1310nm	
Multi-mode Option: 50µm/62.5µm Fiber	TX Max. Power	-8dBm
	TX Min. Power	-15dBm
	RX Sensitivity	-31dBm
	RX Overload	-3dBm
	Min. TX Level	-15dBm
	Min. RX Sensitivity	-31dBm
	Max. Distance	2km
Single-mode Option: 9µm Fiber	TX Max. Power	-8dBm
	TX Min. Power	-15dBm
	RX Sensitivity	-34dBm
	RX Overload	-3dBm
	Min. TX Level	-15dBm
	Min. RX Sensitivity	-34dBm
	Max. Distance	20km
Galvanic Isolation		
Ethernet/Fiber	1.5kV barriers (Magnetic Isolator)	

Environmental Conditions	
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +85°C
Humidity	5% to 95% non-condensing
Atmospheric Pressure	70kPa to 106kPa

Mechanical Characteristics	
Unit Dimensions	63(W)x145(H)x115(D) mm
Mounting	35mm DIN-Rail Mounting or 40x155mm Panel Cutout Mounting

Standards of Compliance

Safety Requirements	
Safety Requirements	IEC 61010-2-201

EMC Compatibility

CE EMC Directive 2014/30/EU (EN IEC 61326: 2021)

Immunity Tests	
Electrostatic Discharge	EN 61000-4-2: 2009
Radiated Fields	EN 61000-4-3: 2006 +A1: 2008 +A2: 2010
Fast Transients	EN 61000-4-4: 2012
Surges	EN 61000-4-5: 2014 +A1: 2017
Conducted Disturbances	EN 61000-4-6: 2014
Magnetic Fields	EN 61000-4-8: 2010
Ring Waves	EN 61000-4-12: 2017

Mechanical Tests	
Free Fall	IEC 60068-2-31: 2008
Vibration	IEC 60068-2-6: 2007
Shock	IEC 60068-2-27: 2008

Ordering Information

Product Code				
PMC-2112 Industrial Ethernet Fiber Switch				
Power Supply	1	95-250VAC/VDC, 47-440Hz, Single Power Supply		
	2	95-250VAC/VDC, 47-440Hz, Dual Power Supply		
Network Port	F0T12	12x10/100BaseT port		
	F2T10~	10x10/100BaseT port, 2x100BaseX Fiber-optic port with LC Connector (for connection with external Single-mode or Multi-mode SFP module)		
Language		E	English	
PMC-2112	- 1 -	F0T12	- E	PMC-2112-1-F0T12-E (Standard Model)

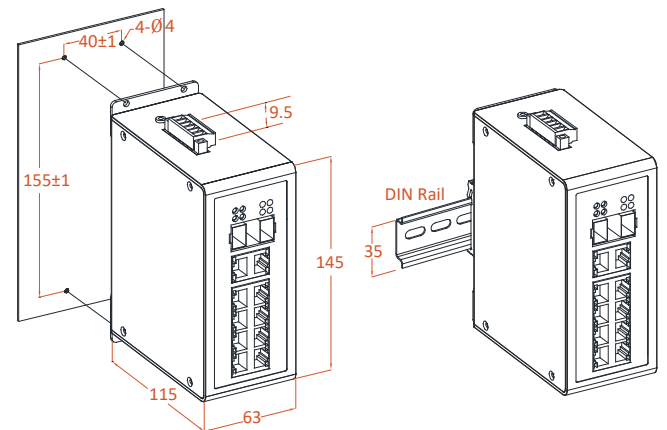
*Please order the optional SFP module for connecting with LC Fiber-optic connectors from the "SFP Module" table.

Accessories

Model Number	Descriptions
PMC-SFP-S20-100M	100Mbps Single-mode SFP Module, LC Connector, Wavelength 1310nm, 20km
PMC-SFP-M02-100M-1	100Mbps Multi-mode SFP Module, LC Connector, Wavelength 1310nm, 20km

Dimensions and Terminal

Unit: mm



Panel Cutout Mounting

DIN-Rail Mounting

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