



Overview

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

Basic 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

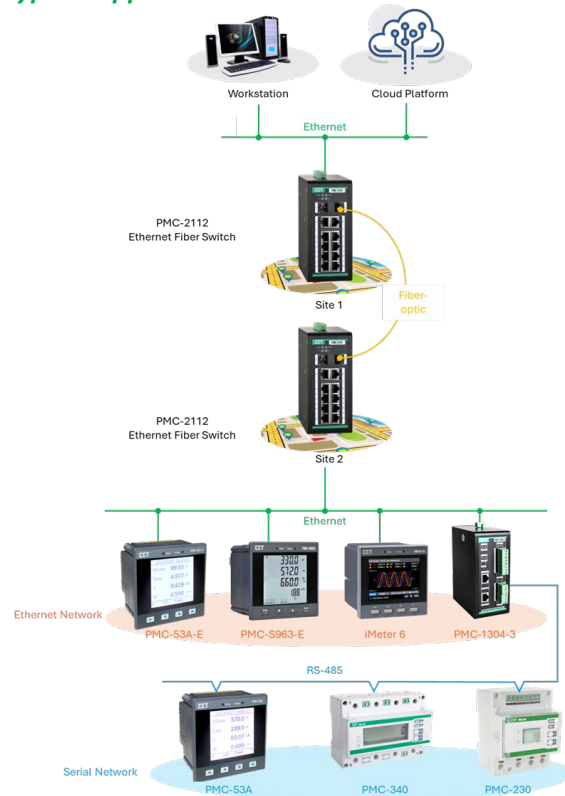
Applications

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

Standard of Compliance

Safety Requirements	
Safety requirements	IEC 61010-2-201
EMC Compatibility	
CE EMC Directive 2014 / 30 / EU (EN IEC 61326: 2021)	
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

Typical Application



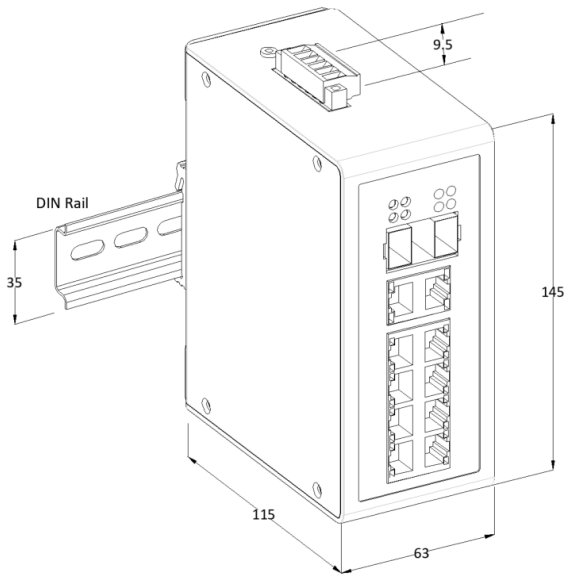
Technical Specifications

Power Supply (L/+, N/-)	
Standard Burden	95-250VAC/DC $\pm$ 10%, 47-440Hz $\leq$ 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	50 μ m/62.5 μ m 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	9 μ m 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 Temp.	-25°C to +70°C
Storage Temp.	-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)
Mounting	35mm DIN-Rail Mounting or 40x155mm Panel Cutout Mounting

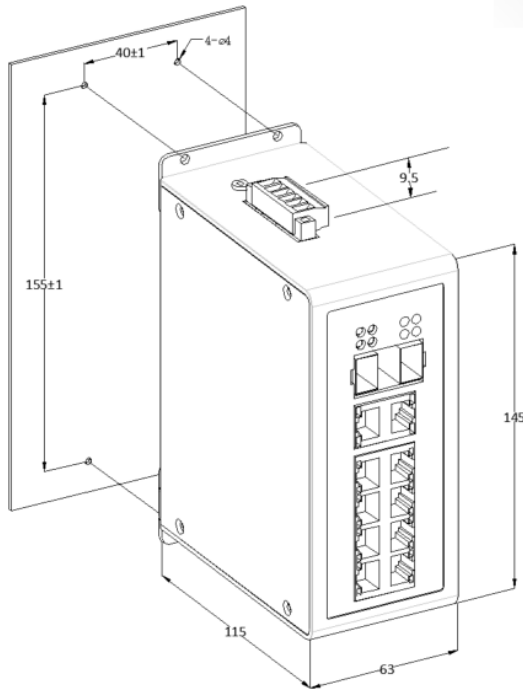


Dimensions and Installations

Unit: mm



DIN-Rail Mounting



Panel Cutout Mounting

Ordering Guide



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Version 20240704

Product Code	Description
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.



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SFP Module	
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, 2km

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Your Local Representative

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Designed For Reliability

Manufactured To Last