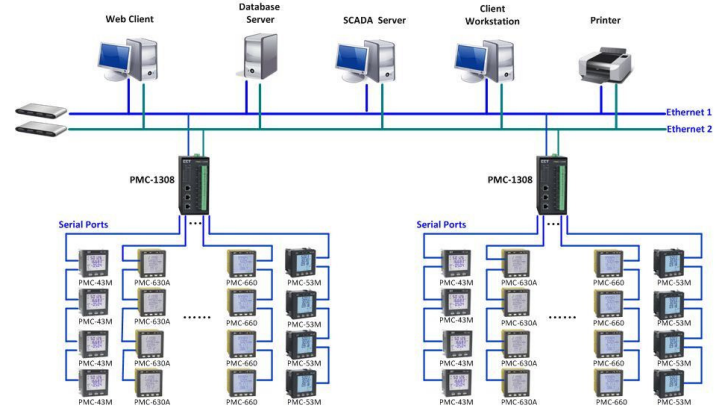




Typical Application



Overview

The PMC-1308 is the ideal equipment for connecting RS232, RS422 or RS485 enabled serial devices to an IP-based network, making it possible to access these serial devices over your Ethernet network for monitoring and control applications. The PMC-1308 supports redundant networking with its dual Ethernet ports in 10/100BaseT or 100BaseFX configuration. The PMC-1308 has been specifically designed with industrial automation in mind and therefore provides un-surpassed performance and reliability even under the harshest industrial environments. The PMC-1308 comes standard with extended operating temperature range and provides 3kV isolation protection for its RS-485 ports. The RTU option provides Mastering capability and local data caching to enhance overall system performance. Not only does the RTU option support the polling of Realtime data, it also supports the uploading of Data Logs, Event Logs and Waveform Logs through one of the Mastering protocols from CET and 3rd-party devices that provide these advanced capabilities.

Features

- Redundant 10/100BaseT Ethernet ports
- 4 / 8 serial ports in different combinations of RS232, RS422 and RS485
- 3kV and 1.5kV isolation protection for RS485 signals and Ethernet ports, respectively, that are specifically designed to withstand the harshest industrial environment 🍑
- Standard transparent Ethernet Serial Gateway function
- Optional RTU model supporting Mastering protocols for Modbus RTU and IEC 60870-5-103 as well as Slave protocols for Modbus TCP/RTU and IEC 60870-5-101/104
- < 3 seconds response time when forwarding remote command
- Standard 4GB Compact Flash local data storage for the RTU model
- Downloadable device drivers that support Realtime Parameters as well as Data Logs, Event Logs and Waveform Logs
- Support customized device drivers for 3rd-party IEDs with one of the supported Mastering protocols
- Waveform Logs are available in COMTRADE file format via the on-board FTP Server
- Simple configuration via built-in web interface
- Fan-less design with static components and low power consumption
- Metal enclosure supporting DIN Rail or Wall Mount


Technical Specifications

Ethernet Ports (P1, P2)	
Standard	2x10/100BaseT Ethernet Ports with RJ45 ports CAT5, CAT5e cable supporting a distance of 100m
Optional	2x100BaseFX Fiber Ports with ST connectors 1310nm supporting a distance of 60km
Single-Mode	9/125 μm
Multi-Mode	1310nm supporting a distance of 2km 50/125μm, 62.5/125 μm
Console Port	
Type	10/100BaseT Ethernet port
Connector	RJ45
Serial Ports (P3, P4, P5, P6, P7, P8, P9, P10)	
Standard	2xRS-485/422 (P3, P4) 6xRS-485 (P5, P6, P7, P8, P9, P10)
Optional	2xRS-485/422 (P3, P4), 2xRS-485 (P5, P6) 4xRS-232 (P7, P8, P9, P10) 2xRS-485/422 (P3, P4) 2xRS-485 (P5, P6)
LED Indicators	
Run - Green	Normal operation
Alarm - Red	Abnormal operation
P1 / P2 / Con - Yellow	Network and Console activities
Rx (P3-P10) - Green	Receive Data activities
Tx (P3-P10) - Yellow	Transmit Data activities
Power Supply (L/+, N/-)	
Standard	95-250VAC/VDC ± 10%, 47-440Hz
Optional	Dual 9-30VDC
Burden	<15W
Isolation Protection	
Isolation Protection	3kV for RS485 signals 1.5kV for Ethernet Port
Environmental Conditions	
Operating Temp.	-25°C to +70°C
Storage Temp.	-40°C to +85°C
Humidity	5% to 95% non-condensing
Atmospheric pressure	70 kPa to 110kPa
Mechanical Characteristics	
Casing	Galvanized Iron
Unit Dimensions	135x72x189mm
Shipping Weight	0.6kg
Shipping Dimensions	240x200x140mm
Mounting	DIN-Rail or Wall Mount
IP Rating	30

Standard of Compliance

Safety Requirements			
Insulation	IEC 60255-5-2000		
Dielectric Test	2kV @ 1 minute		
Insulation Resistance	>100MΩ		
Impulse Voltage	5kV		
Electromagnetic Compatibility			
Electrostatic Discharge	IEC 61000-4-2:2008 Level IV		
Radiated Fields	IEC 61000-4-3:2008 Level III		
Fast Transients	IEC 61000-4-4:2004 Level IV		
Surges	IEC 61000-4-5:2005 Level IV		
Conducted Disturbances	IEC 61000-4-6:2008 Level III		
Magnetic Fields	IEC 61000-4-8:2009 Level IV		
Oscillatory waves	IEC 61000-4-12:2006 Level III		
Mechanical Tests			
Vibration Test	Response	IEC 255-21-1:1988	Level I
	Endurance	IEC 255-21-1:1988	Level I
Shock Test	Response	IEC 255-21-2:1988	Level I
	Endurance	IEC 255-21-2:1988	Level I
Bump Test		IEC 255-21-2:1988	Level I

Ordering Information



Product Code	Description
PMC-1308 Communication Processor	
Power Supply	
2	95-250VAC/VDC, 47-440Hz
B*	Dual 9-30VDC
Basic Function	
T	Transparent
R*	RTU
C*	Customized
Ethernet Port (P1 to P2)	
T2-XX-XXXX	10/100BaseT, RJ45 connector
F2-ST-M002*	100BaseFX, ST connector, Multi-mode, 2km
F2-ST-S060*	100BaseFX, ST connector, Single-mode, 60km
Serial Port - Type A* (P3 to P10)	
A1	P3-P4: RS-485/422 P5-P10: RS-485
A2	P3-P4: RS-485/422 P5-P6: RS-485 P7-P10: RS-232
Serial Port - Type B* (P3 to P6)	
B1	P3-P4: RS-485/422 P5-P6: RS-485
Interface Language	
E	English

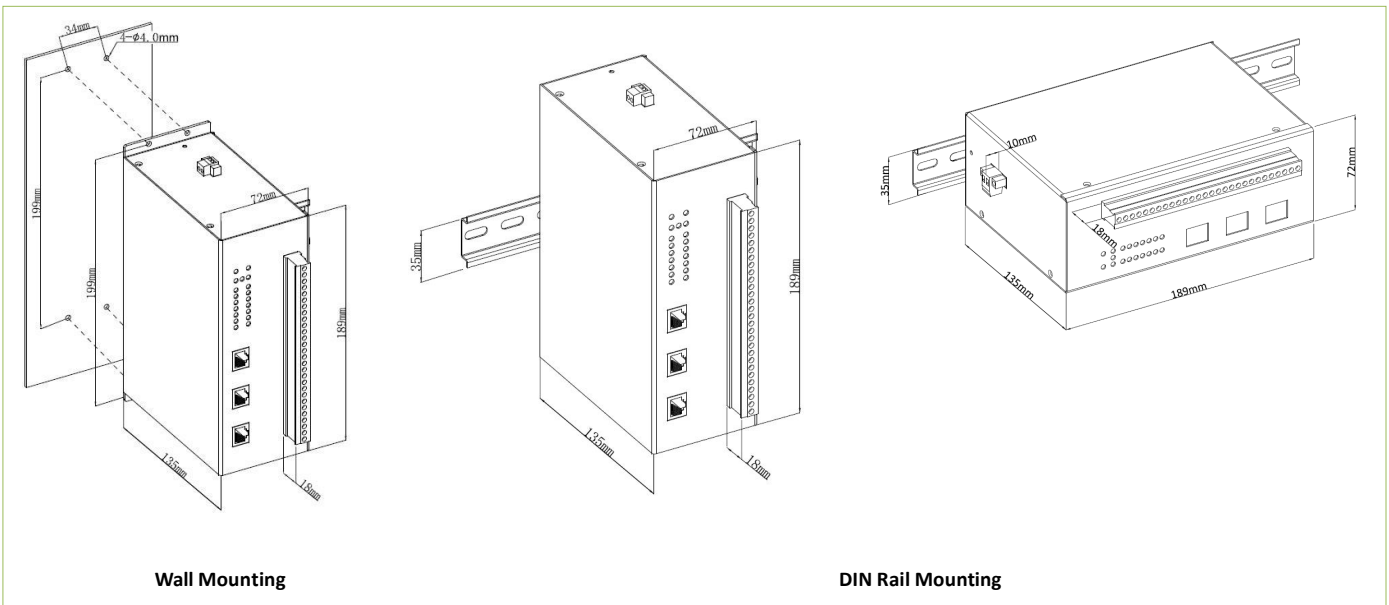
PMC-1308 - 2 - T - T2-XX-XXXX - A1 - E PMC-1308-2-T-T2-XX-XXX-A1-E (Standard Model)

* Additional charges apply.

* For Serial Port option - Type A, the PMC-1308 provides eight serial ports.

* For Serial Port option - Type B, the PMC-1308 provides four serial ports.

Dimensions and Installation



Contact us



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Designed For Reliability

Manufactured To Last