Ceiec Electric Technology

PMC-1380-3
Communications Processor

Overview

The PMC-1380-3 is the ideal embedded equipment for connecting serial devices to an IP-based LAN, making it possible for SCADA or other applications to access serial devices over a LAN for monitoring and control applications. The PMC-1380-3 has been specifically designed with industrial automation in mind and therefore provides un-surpassed performance and reliability under the harshest industrial or commercial environments. The PMC-1380-3 comes standard with extended operating temperature range and provides 3kV isolation protection for its RS-485 ports.

Features

- Dual 10/100BaseT ports (Basic Model)
- Option for two additional 10/100BaseT or 100BaseFx ports
- 16xRS-485 ports or 12xRS-485 ports and 4xRS-232 ports
- Transparent Ethernet Gateway via direct TCP/IP connection
- Optional RTU capability with Modbus Mastering and Local Data Logging for a maximum of 64 Slave IEDs per RS-485 port.
- 4GB of non-volatile memory for the optional RTU Model
- 1.5 kV isolation protection for Ethernet port
- 3kV isolation protection for RS-485
- Simple configuration via its built-in web interface
- Standard 19-inch rack-mount

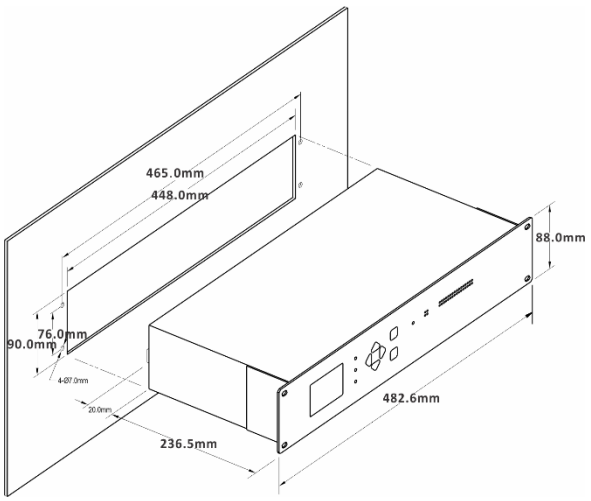
PMC-1380-3-RT (Basic Model)

The **Basic Model** supports the Transparent Ethernet Gateway function which allows the efficient transfer of serial packets between network-based Master applications and downstream serial devices via a direct TCP/IP connection, independent of the serial protocol and operating system.

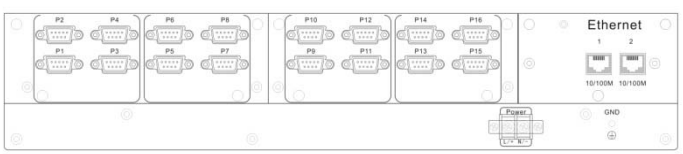
PMC-1380-3-RR (Optional RTU Model)

The **RTU model** provides Modbus Mastering and Local Data Logging capabilities with 4GB of non-volatile memory which can support a maximum of 1024 (16x64) Slave IEDs or 64 Slave IEDs per RS-485 port. The PMC-1380-3-RR provides an additional level of redundancy by supporting data logging of economical downstream Slave IEDs at pre-defined intervals and implementing data caching for simultaneous access by multiple master applications via Modbus TCP connections.

Dimensions and Installation

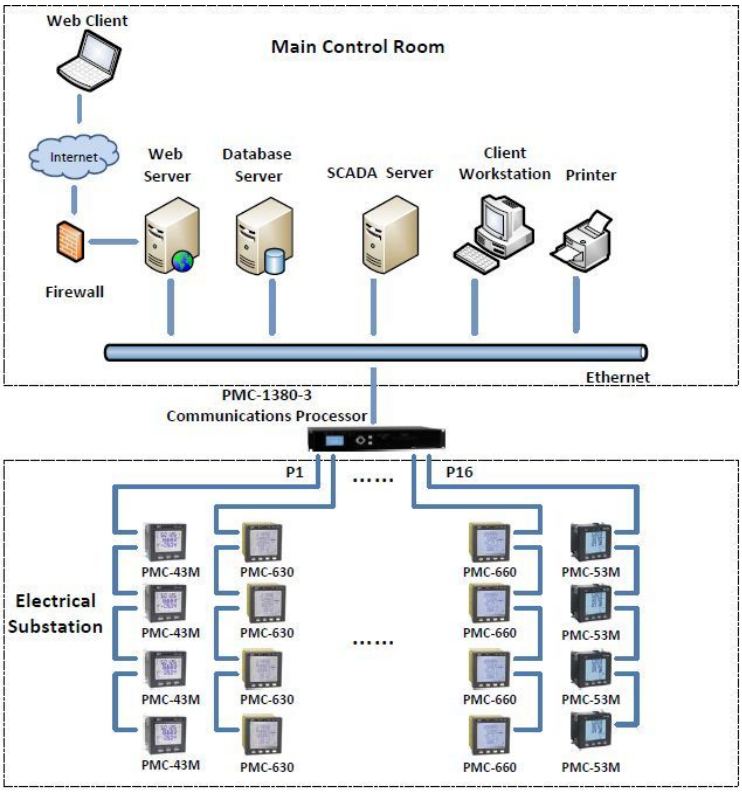


Cutout



Rear Panel

Typical Application



Designed For Reliability *Manufactured To Last*

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Technical Specifications

Ethernet Ports (1, 2, 3, 4)	
Number	2
Connector	RJ45
Ports 1, 2	10/100BaseT
Ports 3, 4 (Optional)	10/100BaseT
Ports 3, 4 (Optional)	100BaseFX (ST Connector)
Serial Ports	
Number	16
Type	RS-232 (DTE) / RS-485
Connector	DB9 Female
Comm. Parameters	
Data bits	5, 6, 7, 8
Stop bits	1, 2
Parity	None, Even, Odd, Mark, Space
Baudrate	300 to 115,200 bps
Front Panel LED Indicators	
Run (Green)	System Status
Link / Act (Green)	Ethernet Connection Indication Network Activity Indicator
100Mbps (Yellow)	100 Mbps Connection Indication
Rx (Green)	Receive Activities
Tx (Yellow)	Transmit Activities
Power Supply (L+, N-, GND)	
Standard	95 to 250VAC/DC ±10%, 47~440Hz
Burden	13W
Protection	
ESD Protection	6kV for all serial signals
Isolation Protection	3kV for RS-485 ports
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 106 kPa
Mechanical Characteristics	
Housing	Aluminum Alloy
Unit Dimensions	482.6 (L)×236.5 (D)×88 (H) mm
Shipping Weight	7.90kg
Shipping Dimensions	655×365×250mm

Standards 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

Ceiec Electric Technology

Version 20141223

Product Code	Description
PMC-1380-3 Communications Processor (LCD, 2U, 19" Rack-Mount)	
Basic Function	
RT[1,2]	Transparent Gateway
RR*	Supporting Mastering protocols for Modbus RTU, Modbus TCP as well as Slave protocol for Modbus TCP
Serial Port	
00-16	0xRS-232, 16xRS-485
04-12	4xRS-232, 12xRS-485
Power Supply	
2	95-250VAC/DC, 47-440Hz
4	2x95-250VAC/DC, 47-440Hz
8	2x9-30VDC
GPS	
N	None
G*	GPS
Ethernet Port	
F0T2-XX-XXXX	2x10/100BaseT
F0T4-XX-XXXX*	4x10/100BaseT
F2T2-ST-M002*	P1/P2 - 10/100BaseT P3/P4 - 100BaseFX, Multi-mode, 2km (ST connector)
F2T2-ST-S060*	P1/P2 - 10/100BaseT P3/P4 - 100BaseFX, Single-mode, 60km (ST connector)
Interface Language	
E	English

PMC-1380-3 - RT - 00-16 - 2 N - F0T2-XX-XXXX - E PMC-1380-3-RT-00-16-2N-F0T2-XX-XXXX-E (Standard Model)

Notes:
1. RT Model does not support GPS
2. RT Model only supports F0T2 Ethernet option.
* Additional charges apply

Your Local Representative

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