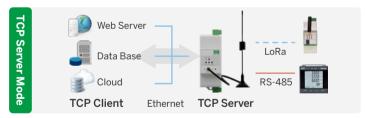


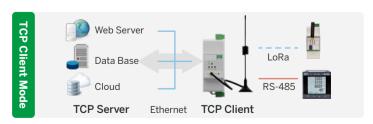
Overview

PMC-1202 is an Intelligent Ethernet Serial/LoRa Gateway that provides one 10/100BaseT Ethernet port, 2xRS-485 port, and one optional wireless LoRa port with configurable ISM Bands. Featuring DIN-Rail mounting and compact construction, it is an ideal equipment that serves as a gateway to connect RS-485 and/or LoRa enabled devices to an IP-based Ethernet LAN over an Ethernet network for any SCADA or Automation applications. It also supports Multiple Masters for Transparent Gateway function. Further, the PMC-1202 has been specifically designed with industrial automation in mind and therefore provides un-surpassed performance and reliability under the harshest industrial or commercial environments.

Typical Application Diagram

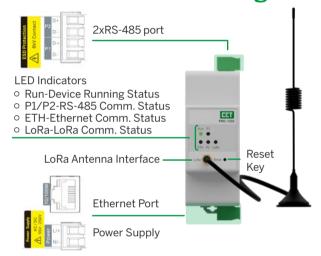


In TCP Server mode, the TCP Clients can initiate and establish the connection. The TCP Server shall listen to the specified Local IP Port and wait for the TCP client to connect. The data sent by the downstream RS-485-enabled or LoRa devices will be transparently transmitted to all successfully connected TCP clients by the TCP server.



In TCP Client mode, the TCP Client initiates a TCP connection to the target IP address and port. If the connection fails, the TCP client will try to reconnect after the Reconnect Interval, until it succeeds. Afterwards, the RS-485-enabled or LoRa devices communicate bi-directionally with the TCP server through the TCP client.

Front View & Terminal Diagram



Features

- 1x10/100BaseT (RJ45) port with MDI/MDIX auto-detect, 1.5kV isolation protection
- 2xRS-485 port with 15kV (Air Discharge) & 8kV (Contact Discharge) ESD protection and 3kV isolation protection
- Optional LoRa port with configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925
- Transparent Gateway between Ethernet port and RS-485/LoRa
 - o TCP Server/Client and UDP Server/Client modes
 - o Maximum 4 Masters per RS-485/LoRa port
 - Maximum 128 downstream LoRa devices per PMC-1202
- Modbus TCP to RTU Gateway
 - o TCP Server and TCP Client modes
 - o 32 Slave IEDs per RS-485 port
 - o Maximum 4 Masters per RS-485/LoRa port
 - Supports caching up to 32 messages per RS-485/LoRa and max. 6 configurable function codes (Read-Only) under TCP Server mode
- WebSocket and HTTPD Client
- Communication Delay < 10 ms under normal operating conditions
- Built-in Web Interface for configurations
- Online firmware upgrade with free software via Ethernet
- Extended operating temperature

Technical Specifications

Communication

• • • • • • • • • • • • • • • • • • • •					
10/100 Mbps					
TCP, UDP, HTTP, WebSocket					
RS-485 (P1, P2)					
300/600/1200/2400/4800/9600/19200/38400 bps					
7, 8					
1, 2					
LoRa (Optional)					
860-935 MHz					
EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923, AS923-925					
18 dBm (Maximum)					
-136 dBm (Maximum)					
0.03 (Typical)					
Certified by TCB					

Power Supply (L/+, N/-)

Standard	95-250VAC/DC ± 10%, 47-440Hz
Optional	12-36VDC
Burden	≤3W

Protection

ESD Protection	15kV (Air) & 8kV (Contact)
Isolation Protection	3kV for RS-485 Ports, 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	70kPa to 106kPa

Mechanical Characteristics

Unit Dimensions	36x65x90mm
Mounting	DIN Rail

Standard of Compliance

Safety Requirements

Audio/Video, Information and Communication Technology Equipment-Part 1: Safety Requirements

IEC 62368-1: 2014 +A1: 2017

Electromagnetic Compatibility

CE EMC Directive 2014 / 30 / EU (EN 55035: 2017 +A11: 2020)

Immunity Tests

Electrostatic Discharge	EN 61000-4-2: 2009
Radiated Fields	EN 61000-4-3: 2020
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
Voltage Dips and Interruptions	EN IEC 61000-4-11: 2020

Emission Tests

ı		
	Electromagnetic Compatibility of Multimedia Equipment-Emission Requirements	EN 55032: 2015 + AC: 2016 +A11: 2020
	Limits for Harmonic Current Emissions for Equipment with Rated Current ≤16 A	EN IEC 61000-3-2: 2019 +A1: 2021
	Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤16 A	EN 61000-3-3: 2013 +A2: 2021
	Emission Standard for Residential, Commercial and Light-Industrial Environments	EN 61000-6-4: 2007 +A1: 2011
	Radiated Emission and Conducted Emission	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.3.2

Radio Equipment Directive (RED) 2014/53/EU

Short Range Devices (SDR) Operating in the Frequency Range 25 MHz to 1000MHz	ETSI EN 300 220-1 V3.1.1: 2017 ETSI EN 300 220-2 V3.1.1: 2017
Assessment of Electronic and Electrical Equipment Related to Human Exposure	EN IEC 62311: 2020

Fields (0Hz-300 GHz) Mechanical Tests

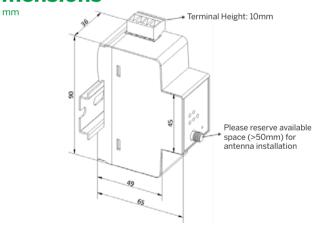
Freefall	IEC 60068-2-31: 2008
Vibration	IEC 60068-2-6: 2007
Shock	IEC 60068-2-27: 2008

Ordering Information

Product Code						Description
PMC-1202 Ether	net	Ser	ial/	LoF	Ra C	Gateway
Basic Function	Т					Modbus TCP/RTU Gateway and Transparent Gateway
Power Supply		2				95-250VAC/DC ± 10%, 47-440Hz
rower Supply		3*				12-36VDC
Communication Ports			T2			1x10/100BaseT Ethernet Port + 2xRS-485 Port
				Ν		None
LoRa				7*		LoRa (860-935 MHz) configurable for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925
Language					Ε	English
PMC-1202 -	Т	2	T2	Ν	Ε	PMC-1202-T2T2NE (Standard Model)

^{*} Additional charges apply

Dimensions



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