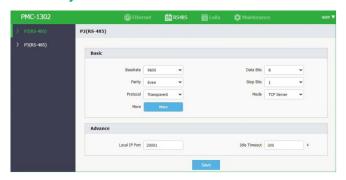
Overview

The PMC-1302-3 ESG is an Industrial Ethernet Serial/LoRa Gateway which provides one 10/100BaseT Ethernet port, two RS-485 ports and an optional wireless LoRa port with configurable ISM Bands. It is an ideal equipment for connecting RS-485 and optionally LoRa enabled devices to an IP-based Ethernet LAN, making it possible to access RS-485 and LoRa enabled devices over an Ethernet network for any SCADA or Automation applications. It also provides multiple Masters support for both Modbus and Transparent Gateway functions. Further, the PMC-1302-3 ESG has been specifically designed with industrial automation in mind and therefore provides un-surpassed performance and reliability under the harshest industrial or commercial environments.

Features

- 1x10/100BaseT (RJ45) and 2xRS-485 ports are designed to withstand the harshest industrial environments
 - 1.5kV isolation protection for the Ethernet port
 - 8kV (contactless) & 6kV (contact) ESD protection and 3kV isolation protection for all serial ports
- Optional LoRa port with configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and
- Transparent Gateway between Ethernet port and RS-485/LoRa
 - TCP Server/Client and UDP Server/Client modes
 - Maximum 4 Masters per RS-485/LoRa port
 - Maximum 128 downstream LoRa devices per PMC-1302-3
- Modbus TCP to RTU Gateway
 - TCP Server and TCP Client modes
 - 32 Slave IEDs per RS-485 port
 - Maximum 8 Modbus TCP Masters
- One-key Reset to Factory Default
- Simple configuration via its built-in web interface
- **DIN Rail Mount**
- Extended operating temperature

Web Interface



PMC-1302-3 **Ethernet Serial/LoRa Gateway**

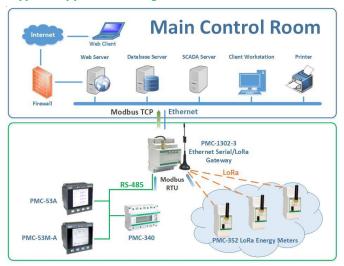
Applications

The PMC-1302-3 ESG supports the efficient transfer of serial packets between the upstream network-based applications and the downstream RS-485 or optionally LoRa wireless devices via a TCP/IP connection. Instead of using a Windows based "Virtual COM" driver with a port-mapping utility, which is often plagued with driver incompatibility among many different Windows versions, the PMC-1302-3 allows applications to directly connect to it via a TCP/IP connection for the transparent transfer of serial packets inside TCP/IP frames to and from downstream devices. Perfectly suited for communicating with industrial devices that have timing sensitive protocols, the PMC-1302-3 ESG provides a reliable interface for SCADA or similar applications that already support direct connection with Ethernet Gateway to communicate with serial devices independent of the protocols used.

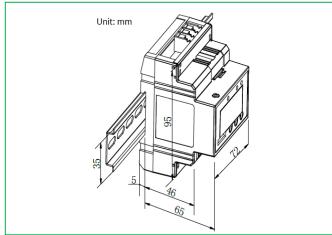
The PMC-1302-3 ESG also supports the Modbus TCP to Modbus RTU Gateway function that makes it extremely simple for any Modbus TCP Master applications to interface with Modbus RTU enabled IEDs over a local area network. A simple web-based interface allows users to easily configure the TCP to RTU address mapping for downstream Slave IEDs connected via RS-485 or optional LoRa.

The PMC-1302-3 ESG can be enabled to support multiple Masters to facilitate information sharing while minimizing the implementation cost. In addition, the optional LoRa port supports configurable ISM Bands for wireless IoT applications in most countries.

Typical Application Diagram



Dimensions





PMC-1302-3 **Ethernet Serial/LoRa Gateway**

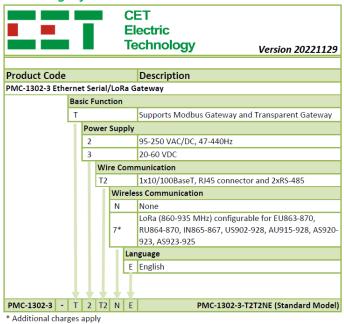
Standard of Compliance

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Technical Specifications

reclinical specifications		
Communication		
Ethernet Port (P1)	10/100 Mbps	
Protocol	TCP, UDP, HTTP	
RS-485 (P2, P3)		
Baudrate	300/600/1200/2400/4800/9600/19200/38400 bps	
Data Bits	7, 8	
Stop Bits	1, 2	
LoRa (Optional)		
RF Range	860-935 MHz	
ISM Bands	EU863-870, RU864-870, IN865-867, US902-928,	
	AU915-928, AS920-923 and AS923-925	
RF Output Power	18 dBm (Maximum)	
Receiver Sensitivity	-136 dBm (Maximum)	
Output Watts	0.03 (Typical)	
FCC Part 15C	Certified by TCB	
Front Panel LED Indicators		
Run (Green)	Blinking - System is running normally	
Data (Yellow)	Blinking - LoRa is receiving or transmitting data	
P2, P3 (Green)	Blinking - Receiving activity	
P2, P3 (Yellow)	Blinking - Transmitting activity	
Power Supply (L/+, N/-)		
Standard	95-250VAC/DC, 47-440Hz	
Optional	20-60VDC	
Burden	≤3W	
Protection		
ESD Protection	8kV (contactless) & 6kV (contact)	
Isolation Protection	3kV for RS-485	
	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 110kPa	
Mechanical Characteristics		
Unit Dimensions	72x65x95mm	
Mounting	DIN Rail	
IP Rating	20	

Ordering Information



CET Electric Technology Inc.

sales@cet-global.com www.cet-global.com

Your Local Representative

Revision Date: December 8, 2022