

# -1302 Eats 22 23

### **Overview**

The PMC-1302-3 ESG is an 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 the ideal equipment for connecting RS-485 and optionally LoRa enabled devices to an IP-based Ethernet LAN, making it possible to access serial and optionally LoRa devices over your Ethernet network for any SCADA or Automation applications. 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
- Optional LoRa port with configurable ISM Bands for EU863-870, RU864-870, IN865-867, US902-928, AU915-928, AS920-923 and AS923-925
- 8kV ESD protection
- 1.5kV isolation protection for Ethernet port
- 3kV isolation protection for RS-485
- One-key Reset to default factory
- Simple configuration via its built-in web interface
- **DIN Rail Mounting**
- Extended operating temperature

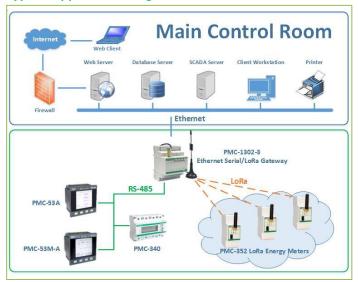
### **Applications**

The PMC-1302-3 ESG supports the efficient transfer of serial packets between the upstream network-based applications and the downstream RS-485 serial and 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 the many different Windows versions, the PMC-1302-3 ESG allows applications to directly connect to it via a TCP/IP connection for the 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 which allows SCADA or similar applications that already support direct connection with Ethernet Gateway to communicate with downstream devices independent of the serial protocol used.

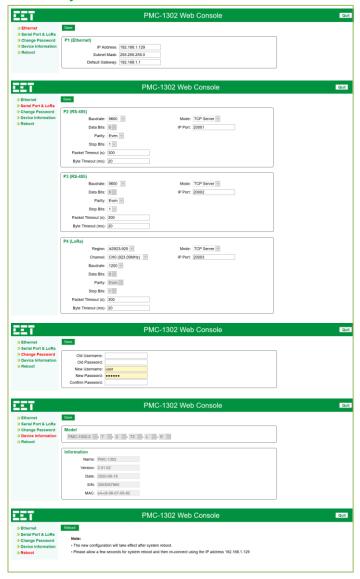
The PMC-1302-3 ESG optionally supports the LoRa port with configurable ISM Bands for wireless IoT applications in most countries.

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

### **Typical Application Diagram**



### Web Interfaces



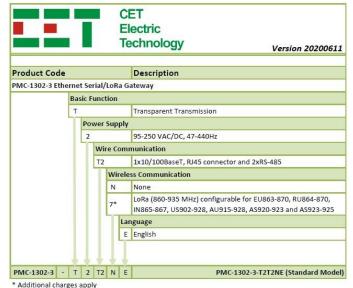


# PMC-1302-3 **Ethernet Serial/LoRa Gateway**

### **Standard of Compliance**

Safety Requirements		
Insulation	EN61010-1: 2010	
	EN61010-2-030: 2010	
Dielectric Test	2kV @ 1 minute	
Insulation Resistance	>100MΩ	
Impulse Voltage	5kV, 1.2/50μs	
Electromagnetic Compatibility		
CE EMC Directive 2014 / 30 / EU (EN 61326: 2013)		
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	
Voltage Dips and Interruptions	EN 61000-4-11: 2004+A1: 2017	
Emission Tests		
Limits and Methods of Measurement		
of Electromagnetic Disturbance		
Characteristics of Industrial, Scientific	EN 55011: 2016	
and Medical (ISM) Radio-Frequency		
Equipment		
Electromagnetic Compatibility of		
Multimedia Equipment - Emission	EN 55032: 2015	
Requirements		
Limits for Harmonic Current		
Emissions for Equipment with Rated	EN 61000-3-2: 2014	
Current ≤16 A		
Limitation Of Voltage Fluctuations		
And Flicker In Low-Voltage Supply	EN 61000-3-3: 2013	
Systems For Equipment With Rated	214 01000 3 3. 2013	
Current ≤16 A		
Emission Standard for Residential,		
Commercial and Light-Industrial	EN 61000-6-4: 2007+A1: 2011	
Environments		
Mechanical Tests		
Spring Hammer Test	IEC 62052-11: 2003	
Vibration Test	IEC 62052-11: 2003	
Shock Test	IEC 62052-11: 2003	

## **Ordering Information**



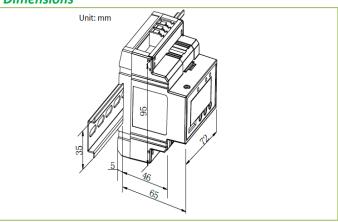
### CET Electric Technology Inc.

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### **Technical Specifications**

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Communication	
Ethernet Port (P1)	10/100 Mbps
Protocol	TCP, UDP, HTTP
RS-485 (P2, P3)	
Baudrate	1200/2400/4800/9600/19200/38400 bps
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	19 dBm (Maximum)
Receiver Sensitivity	-137 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
Burden	<3W
Protection	
ESD Protection	8kV
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
Shipping Weight	TBD
Shipping Dimensions	TBD
Mounting	DIN Rail
IP Rating	20

### **Dimensions**



### **Your Local Representative**



Revision Date: June 22, 2020