

Overview

The PMC-1302-3 ESLG is an Industrial Ethernet Serial/LoRa Gateway which provides one 10/100BaseT Ethernet port, two RS-485 ports and one wireless LoRa port with configurable ISM Bands. It is an ideal equipment for connecting RS-485 devices and LoRa Temperature Sensors such as PMC-2601 or PMC-2603 to an IP-based Ethernet LAN 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 ESLG 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-2601 and PMC-2603 LoRa Temperature Sensors are CET's latest offer for Wireless Temperature and Humidity Monitoring of all critical connections and locations in Transmission and Distribution Networks. The compact size and flexible installation methods make the sensors perfect for detecting overheating problems of various application scenarios such as Transformer Enclosure, Circuit Breaker (Static and Movable contactors), Joint of Cables, Feeders and Busbars, Cabinets and Drawers, Motor Enclosure as well as Capacitor and Reactor Surface, etc.

PMC-1302-3 Features

- 1x10/100BaseT (RJ45) and 2xRS-485 ports are designed to withstand the harshest industrial environments
 - 2kV isolation protection for the Ethernet port 0
 - 15kV (Air Discharge) & 8kV (Contact Discharge) ESD protection 0 and 3kV isolation protection for all serial ports
- One LoRa port with optional ISM Bands for EU 863-870/RU 864-870/IN 865-867, US 902-928, AU 915-928, AS1 920-923/AS2 923-925 MHz
- Transparent Gateway between Ethernet port and RS-485 ports
 - TCP Server/Client and UDP Server/Client modes 0
 - Maximum 4 Masters per RS-485 port 0
- Modbus TCP to RTU Gateway
 - 0 TCP Server and TCP Client modes
 - 32 Slave IEDs per RS-485 port 0
 - Maximum 8 Modbus TCP Masters
- Multiple Masters support for both Modbus and Transparent Gateway functions
- Temperature & Humidity data collection from LoRa Temp. Sensor (PMC-2601 and/or PMC-2603) and measurements display via Built-in Web Server
 - Maximum 80xPMC-2601 and/or PMC-2603 per PMC-1302-3 0
 - 10-sec. real-time data for up to 10 areas (e.g. Breakers, Cabinets 0 and Transformers, etc.)
 - Data Recorder (DR) logs for Temp. & Humidity data @15-minute 0 interval for at least 2 months
 - Daily and Monthly Max./Min. Log for selectable Areas and 0 Period
 - 2-Level Setpoint Warning and Alarm for Temperature and 0 Humidity
 - 0 Up to 256 SOE logs of Setpoints on a FIFO basis
- Built-in Web Server for LoRa Temp. Sensors configurations, Temperature and Humidity measurements display. Comm. Configuration, Device Maintenance as well as User Management
- One-key Reset to Factory Default
- **DIN-Rail Mounting**
- Extended operating temperature

LoRa Wireless **Gateway & Temperature Sensors**

PMC-2601 and PMC-2603 Features

- PMC-2601 supports 1xBuilt-in NTC Sensor for Temperature Monitoring and 1xBuilt-in Humidity Sensor.
- PMC-2603 supports 3xExternal NTC Inputs for Temperature Monitoring and 1xBuilt-in Humidity Sensor.
- LoRa Wireless Communication 300m transmission distance in an open environment or 100m transmission distance in a closed cabinet.
 - Selectable Freq. Bands options EU 863-870 MHz/RU 864-870 MHz/IN 865-867 MHz С
 - D US 902-928 MHz
 - Ε AU 915-928 MHz
 - F AS1 920-923 MHz/AS2 923-925 MHz
 - G Custom Channel in 860-930 MHz range

Applications

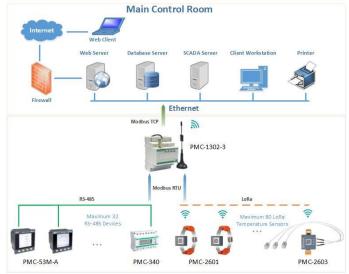
The PMC-1302-3 ESLG supports the efficient transfer of serial packets between the upstream network-based applications and the downstream RS-485 devices via a TCP/IP connection. Instead of using a Windows based "Virtual COM" driver with a port-mapping utility, which is often plagued with driver incompatibility 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 ESLG 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 ESLG 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.

The PMC-1302-3 ESLG can be enabled to support multiple Masters to facilitate information sharing while minimizing the implementation cost.

The PMC-1302-3 ESLG supports Data Collection from up to 80xPMC-2601 and/or PMC-2603 LoRa Temp. Sensor. The temperature and humidity measurements will be automatically transmitted to the PMC-1302-3 through LoRa wireless communication and stored in PMC-1302-3 as well as displayed via Built-in Web Server. Besides, the PMC-1302-3 ESLG is capable of generating and displaying Max./Min. logs, DR logs, as well as SOE Logs for collected Temperature and Humidity data.

Typical Application Diagram



Designed For Reliability Manufactured To Last



Technical Specifications PMC-1302-3

PMC-1302-3							
	Co	mmunication					
Ethernet Port (P	1)						
Speed	10/10	0 Mbps					
Protocol	TCP, U	TCP, UDP, HTTP					
RS-485 (P2, P3)							
Baudrate	300/6	300/600/1200/2400/4800/9600/19200/38400bps					
Data Bits	7,8	7,8					
Stop Bits	1, 2	1, 2					
LoRa							
RF Range	860-9	860-935 MHz					
ISM Bands	EU 86	EU 863-870/RU 864-870/IN 865-867, US 902-					
	928, A	928, AU 915-928, AS1 920-923/AS2 923-925					
RF Output Pc	wer 18 dB	m (Maximum)					
Receiver Sen		Bm (Maximum)					
Output Watts		0.03 (Typical)					
FCC Part 15C		Certified by TCB					
		anel LED Indicators					
Run (Green)							
Data (Yellow)		Blinking - System is running normally Blinking - LoRa is receiving or transmitting data					
P2, P3 (Green)		ng - Receiving activ					
,			•				
P2, P3 (Yellow)		ng - Transmitting a	ctivity				
		ower Supply					
Standard (L/+, N		95-250VAC/DC, 47-440Hz					
Optional (+, -)		20-60VDC					
Burden	-	≤3W					
		Protection					
ESD Protection	15kV	(Air) & 8kV (Contac	t)				
Isolation Protec	tion 3kV fo	or RS-485, 2kV for E	Ethernet Port				
	Environ	mental Conditions	1				
Operating Temp	25°С	-25°C to +70°C					
Storage Temp.	-40°C	-40°C to +85°C					
Humidity	5% to	5% to 95% non-condensing					
Atmospheric Pro	essure 70kPa	70kPa to 106kPa					
	Mechan	ical Characteristic	5				
Unit Dimension	s 72x65	x95mm					
Mounting	DIN R	DIN Rail					
IP Rating	30	30					
		Antenna					
Frequency Rang	re 860-9	35MHz					
Band Width		75MHz					
Impedance	-	500Ω					
Power Capabilit		50W					
Height	-	+5mm					
0		239.5±5mm ≤2					
VSWR (Voltage		34					
Standing Wave							
Gain	4dBi						
LoRa Temp.							
	PMC-2601-A	PMC-2601-B	PMC-2603				
No. of Sensor		(Built-in)	3xNTC (External)				
	+1xHumid	LxHumidity (Built-in) +1xHumidity (Built-in					
Manauramart	Т	. 10°C to 125°C /	A				

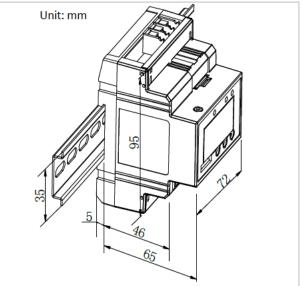
Gateway & Temperature Sensors

LoRa Wireless

Standard of Compliance

Safety RequirementsAudio/Video, Information and Communication Technology Equipment - Part 1: Safety RequirementsEN 62368-1: 2014+A11: 2017Electromagnetic Compatibility CE EMC Directive 2014 / 30 / EU (EN 55035: 2017+A11: 2020)Electrostatic DischargeEN 61000-4-2: 2009Radiated FieldsEN IEC 61000-4-3: 2020Fast TransientsEN 61000-4-4: 2012SurgesEN 61000-4-4: 2012Conducted DisturbancesEN 61000-4-6: 2014Magnetic FieldsEN 16000-4-8: 2010Voltage Dips and InterruptionsEN 1EC 61000-4-11: 2020Electromagnetic Compatibility of Multimedia Equipment- Emission RequirementsEN 55032: 2015+AC: 2016+A11: 2020Limits for Harmonic Current Emissions for Equipment with Rated Current ≤16 AEN IEC 61000-3-2: 2019+A1: 2021Limitation of Voltage Fluctuations and Flicker in Low- Voltage Supply Systems for Equipment with Rated Current ≤16 AEN 61000-6-4: 2007+A1: 2021Emission Standard for Residential, Commercial and Light-Industrial EnvironmentsEN 61000-6-4: 2007+A1: 2011Radiated Emission and ETSI EN 301 489-1 V2.2.3 Conducted Emission and ETSI EN 301 489-1 V2.2.3ETSI EN 301 489-3 V2.3.2Radiated Emission and felckronic and Light-Industrial EnvironmentsETSI EN 301 489-1 V2.2.3Radiated Emission and felckronic and Light-Industrial EnvironmentsETSI EN 301 489-1 V2.2.3Radiated Emission and Conducted Emission and ETSI EN 301 489-1 V2.3.2ETSI EN 301 489-1 V2.3.3Conducted EmissionETSI EN 301 489-1 V2.3.3Conducted EmissionETSI EN 301								
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Radio Equipment Directive (RED) 2014 / 53 / EU								
Assessment of Electronic and								
Electrical Equipment Related to Human Exposure Restrictions EN IEC 62311: 2020 for Electromagnetic Fields (OHz - 300 GHz)								
Short Range Devices (SRD)ETSI EN 300 220-1 V3.1.1: 2017Operating in the Frequency Range 25 MHz to 1000MHzETSI EN 300 220-2 V3.1.1: 2017								
Mechanical Tests								
Spring Hammer Test IEC 62052-11: 2003								
Vibration Test IEC 62052-11: 2003								
Shock Test IEC 62052-11: 2003								

Dimensions and Installation



Manufactured To Last

Designed For Reliability

15dBm

Temp.: -40°C to 125°C (Accuracy: ±1°C)

Humidity: 10% to 90% (Accuracy: ±2%)

30s @ Ist=5A

15000bps

22.5mA

TC Change ≤ 2°C: 30s, TC Change > 2°C: 10s

Humidity: 60s

3V, 1000mAh

5-Year Battery

Life

LoRa

38x38x22mm

Self-Powered

by Induction

Current

3.5A

Minimum

14dBm

Measurement Range

Dimensions

Power Supply

Startup Time

Starting

Current

Baudrate

Working

Current RF Output

Power Transmission

Cycle

26x22x11mm

Self-Powered

by Induction

Current

3.5A

Minimum

14dBm



Ordering Information

PMC-1	130)2	-3							
					С	ET				1
		lectric								
		4	1		Te	echnology			Version 2024092	9
Droduct Cod	lo.	_	_			Description				
Product Cod PMC-1302-3 Et		et S	Seria	al/Lo	Ra G	Description ateway				
	_			nctio						
	Ŀ	_		-		Modbus Gatewa	y and Transpa	rent Gatewa	y	_
		P		er Su	pply	95-250 VAC/DC,	47-440Hz			
						20-60 VDC				-
					Com	munication				
			Ľ	12 M	/irele	1x10/100BaseT ss Communicatio				
				IF,				igurable Fred	uency Bands for data collection from	1
				ĮĽ,	_	LoRa Temp. Sen				
						nguage English				
					ľ	LIBIO				
	_									_
PMC-1302-3				-	-				PMC-1302-3-T2T2TE (Standard Mode	l)
LoRa 1	Ten	np).	Se	ns	or				
		ectri								
	Te	chn	olog	Y					Version 2024101	1
Product Code						Description				
PMC-2601 PMC-2603						LoRa Temperature LoRa Temperature				-
	ower	Supp	ply							
AB						Self-Powered by In Battery (3V, 1000m		ery Life and PN	1C-2601 only)	-
1 1	Ser 1	nsor	Inpu	ut		1xBuilt-in NTC Sens	or + 1xBuilt-in h	lumidity Senso	r (PMC-2601 only)	
	2	_							-in Humidity Sensor (PMC-2603 only)	
		Fre C	que	ncy E	Band	EU 863-870 MHz/R	U 864-870 MHz	/IN 865-867 M	Hz	_
		D				US 902-928 MHz				
		E F				AU 915-928 MHz AS1 920-923 MHz/AS2 923-925 MHz				
		G	Ia	De Ch	anne	Custom Channel in 860-930 MHz range (MOQ = 500pcs)				
			1			Channel 1				
			2 3			Channel 2 Channel 3				-
			4			Channel 4				1
			5 6			Channel 5 Channel 6				-
			7 8			Channel 7 Channel 8				
			ľ	Ins	tallati	on Method				
				1					wer Supply option B only) unt (PMC-2601 Power Supply option B only)	-
				3		Permalloy Strip		-		
					Lang	guage English				
				1	Τ					
PMC-2601 -				3	E				PMC-2601-A1C13E (Standard Mode	el)
PMC-2603 - A *Additional char			1	3	E				PMC-2603-A2C13E (Standard Mode	el)
The factory pres	set op	tion:							tion is listed in Table A. Please note that the 601 or a PMC-2603. Please select a proper LoR	
					LoRa	Temperature Senso	r.	tor a PMIC-2	out or a PMU-2005. Please select a proper Lok	•
Table A		с			D	Frequency Band Optio E	F	G		
Channel 1 Channel 2	863. 864.				2.50M 7.50M		920.50MHz 921.50MHz	Custom -		
Channel 3 Channel 4 Channel 5	865.1 866.1				2.50M		922.50MHz 923.50MHz	-		
	866.1 867.1	85M	Hz		2.50M		924.50MHz	-		
Channel 6 Channel 7 Channel 8	868.	85MI	Hz		2	927.50MHz	-	-		
If the total numb Channel.	ber of	mor	nitor	ring n	odes i	s less than 247, it is	recommended t	o order the PN	1C-2601 or PMC-2603 with the same LoRa	
^Magnetic moun	nting is	s not	t suit	table	if the	PMC-2601 is installe	ed at cable joints	or other situa	tions where the Load Current is greater than	
10A. 	he ext	erna	INT	C sen	sors f	rom "NTC Sensor" si	heet.			
	ET									-
T	lectric echnol	ogy							Version 202403	01
NTC Sensor Model #		Г					Specific	ation/Description	n	_
NTC-104, 0.3 NTC-104, 0.4		F							e sleeve and 0.3m cable ctive silicone pad and 0.4m cable	
NTC-104M4, NTC-104M10,	2	Þ				1xNT	C Sensor with φ4 C Sensor with φ10	mm ring connec	tor and 2m cable	_
NTC-1043, 2	2					Sensor (yellow, green	and red) as one s	et, each with ins	ulated metal protective sleeve and 2m cable	
requirements.									3m cable. Please contact us for any specific	
		ens0	., op				and 2m cable. Plê		or any specific requirements. Connector NTC Sensor	
Connect	tor	_	_	-	NTC Sen	Sor Connector		NTC Sensor	Q Q	
	1				Y		1	U		
	1						\sim			

NTC-104, 0.3 NTC-104, 0.4

NTC-104M4, 2 / NTC-104M10, 1

LoRa Wireless Gateway & Temperature Sensors

PMC-2601 and PMC-2603 Appearance

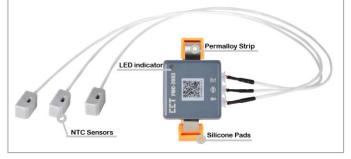
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PMC-2601-A (Self-powered by Induction Current) LED indicator Permalloy Strip Hex Screw & Nut Silicone Pads PMC-2601-B (Powered by 3V Battery) LED indicator Normal running state (blink every 10 seconds)



PMC-2603 (Self-powered by Induction Current, with 3xNTC Inputs)



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Your Local Representative Revision Date: October 16, 2024

Designed For Reliability Manufactured To Last