

PMC-523x(M)

Single Lan Port

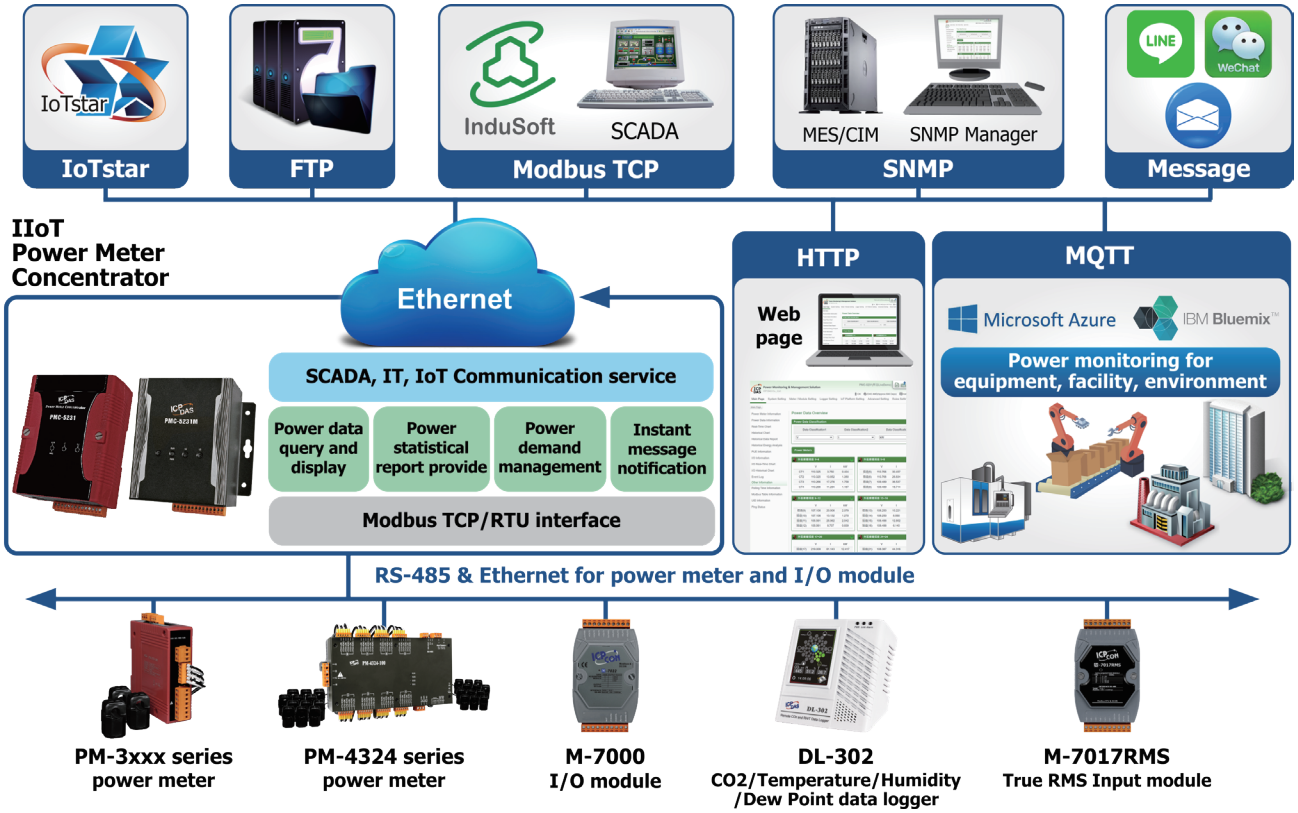
Features

- No extra software tool is required, using browsers to perform system operations
- Support at most "24 ICP DAS Modbus Power Meter modules + 8 Modbus I/O modules" (Max. total of 16 TCP type modules)
  * COM3 and COM4 can connect to Max. 16 Modbus RTU modules individually.
  * LAN can connect to Max. 16 Modbus TCP modules
  * Support at most 4 ICP DAS PM-4324 series Power Meters.
- Display real-time or historical power data; Provide power data statistics report
- Power data logger and data files send back function supported.
- Built-in IF-THEN-ELSE logic engine for power demand management
- Support Line, WeChat and Email message notification
- Support Modbus TCP/RTU, SNMP, MQTT, FTP and CGI protocols.
- Support connection with IoT Cloud Platform (Microsoft Azure,IBM Bluemix) and IoTstar Cloud Management Software

Introduction

PMC-523x(M) is the IIoT Power Meter Concentrator for meeting the trend of energy management in the Industry 4.0 age. It provides flexible integration with the ICP DAS power meters via RS-485 or Ethernet interface, and features various functions such as: measure the power consumption of the devices, energy usage analysis, power data log operation, power demand management and alarm notification functions. PMC-523x(M) offers a user-friendly and intuitive web site interface that allows users to implement the Energy monitoring system just a few clicks away; no programming is required. By working with the power meters, IF-THEN-ELSE logic rule execution ability, and LINE/Email/WeChat alarm message notification functions, PMC-523x(M) offers more thought-out power demand management functions, and is able to perform load shedding of the devices if required. It also supports the Modbus TCP/RTU, SNMP, FTP, MQTT and CGI protocols for seamless integration with the back-end SCADA/IT/IoT systems.

System Architecture



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Hardware Specifications

Model	PMC-523x	PMC-523xM
System		
CPU	32-bit ARM CPU, 1 GHz	
VGA port	Yes (Only for system diagnostic and recovery operations)	
microSD	Built-in one 4 GB microSD card (support up to 32 GB microSDHC card)	
Communication Interface		
Ethernet	RJ-45 x 1, 10/100/1000 Base-TX (Auto-negotiating, Auto MDI/MDI-X)	
COM 2	RS-232 (TxD, RxD, GND), non-isolated, Speed: 115200 bps max	
COM 3/COM 4	RS-485 (Data+, Data-), Speed: 115200 bps max. COM 4 provides 2500 VDC isolation.	
Module Support		
Local Side	Support ICP DAS XV-board	
Remote Side	• Support at most "24 ICP DAS Modbus Power Meters + 8 Modbus I/O modules" (Max. total of 16 Modbus TCP type modules) * COM3 and COM4 can connect to Max. 16 Modbus RTU modules individually. * LAN can connect to Max. 16 Modbus TCP modules. * Support at most 4 ICP DAS PM-4324 series Power Meters)	
Mechanical		
Casing/ Dimensions (W x L x H; mm)	Plastic ; 91 x 132 x 52	Metal ; 117 x 126 x 58
Installation	DIN-Rail Installation	Wall Mounting/DIN-Rail Installation
Environmental		
Temperature/ Humidity	Operating Temperature: -25 °C to +75 °C; Storage Temperature: -40 °C to +80 °C; 10 to 90% RH, Non-condensing	
Power Requirements		
Input Range/ Consumption	+12 to +48 VDC; 4.8 W	

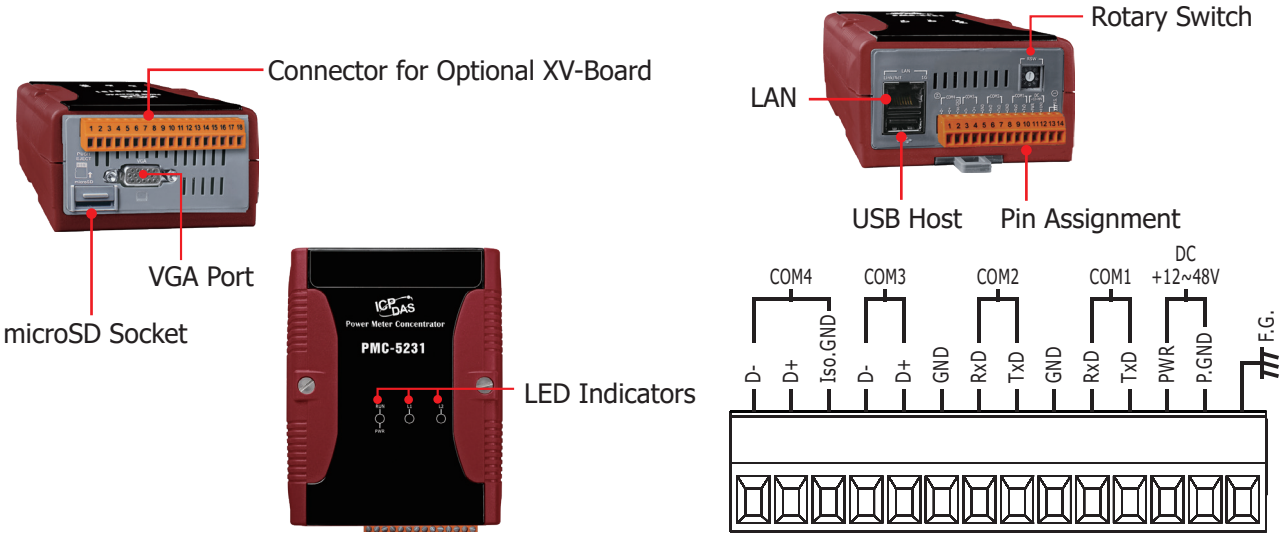
Software Specifications

Function	Description
Operation Interface	• Web Page
Power data collection	• Power data collection; Real-time and Historical power data displayed • Power data logging and historical power data statistics report provided • PUE information provided and displayed
Power demand management	• Built-in IF-THEN-ELSE logic engine for thought-out power demand management • Adjust equipment operation by its power status via Modbus I/O modules • Provide Schedule function to manage the equipment's operation(via the Modbus TCP/RTU protocol) • Provide message notification function via Email, LINE (PMC-5236 also provides WeChat message notification function)
Integrate with SCADA/ IT/IoT/ System	• Support Modbus TCP/RTU, MQTT, SNMP(v1, v2c), CGI protocols to transmit real-time power data • Power data logging and power data file auto send-back (by FTP protocol) & recovery when network is resumed after disconnection • Support DDNS (Dynamic DNS) system • Support Microsoft Azure, IBM Bluemix IoT Cloud platforms • Support ICP DAS IoTstar Cloud software

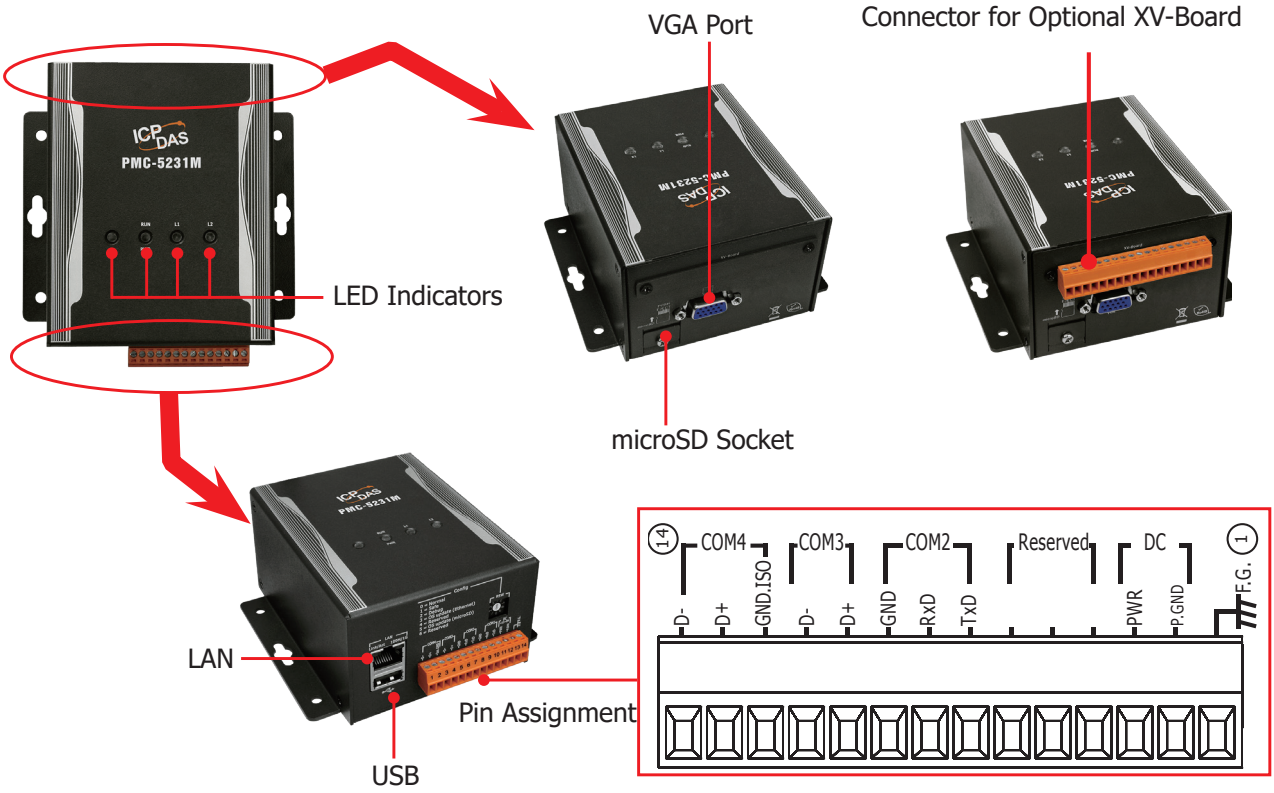
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Appearance

PMC-523x



PMC-523xM



Ordering Information

PMC-5231 CR	IIoT Power Meter Concentrator (Plastic casing;)
PMC-5236 CR	IIoT Power Meter Concentrator (Plastic casing; Additional support for WeChat Message Sending)
PMC-5231M CR	IIoT Power Meter Concentrator (Metal casing)
PMC-5236M CR	IIoT Power Meter Concentrator (Metal casing; Additional support for WeChat Message Sending)

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