



Features

- No extra software tool is required, using browsers to perform system operations
- Support at most 24 ICP DAS Modbus Power Meters and 8 Modbus I/O modules (COM3, COM4 and LAN interface can connect to Max. 16 power meters individually)
- Display real-time or historical power data (in data table or chart form)
- Provide power data statistics report (Daily and Monthly report)
- Data file auto send-back & recovery when network is resumed after disconnection
- Built-in IF-THEN-ELSE logic engine for thought-out power demand management
- Provide alarm message notification function via Email
- Adjust device operations by its power status via Modbus I/O modules
- Provide Schedule function for operations of I/O modules (devices)
- Support Modbus TCP/RTU Slave protocol for seamless integration with SCADA
- Support Standard SNMP Protocol
- With PMC Data Server software, allow importing the power data into database



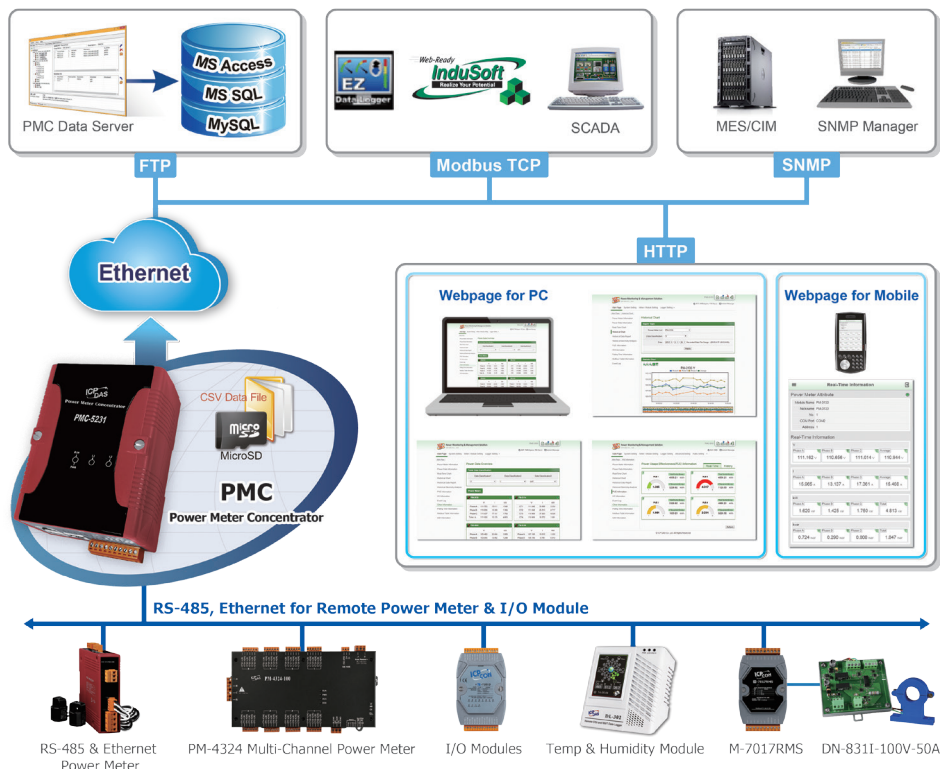
Introduction

The PMC-5231 is a web-based intelligent Power Meter Concentrator developed by ICP DAS. It offers webpage interface, and features various functions such as: power data collection, logic control, power demand management, data logger and alarm notification functions. PMC-5231 allows connections to ICP DAS Smart Power Meters via RS-485 or Ethernet interface to read the power data of the devices measured by the power meters; and then real-time record the power values in the data logger file. It also provides data logger file auto send-back function; together with PMC Data Server software or SCADA software, it allows collection and analysis of the power data.

PMC-5231 is equipped with built-in Web Server that allows direct connections via browsers to the PMC-5231 for viewing power data and setting up the system parameters. It also offers Modbus TCP/RTU Slave function that allows SCADA software or HMI devices to connect to PMC-5231 to get real-time power data of the devices via Modbus TCP/RTU protocol.

In addition to ICP DAS XV-Board and M-7000 I/O modules, the PMC-5231 can also connect to standard Modbus TCP/RTU Slave modules. By working with the I/O modules, and functions such as IF-THEN-ELSE logic rule execution and alarm notification functions including Email/SNMP Trap, PMC-5231 offers more thought-out power demand management and alarm notification functions, and is able to perform load shedding of the devices if required, and enables real-time monitoring and control of the power consumption of the devices.

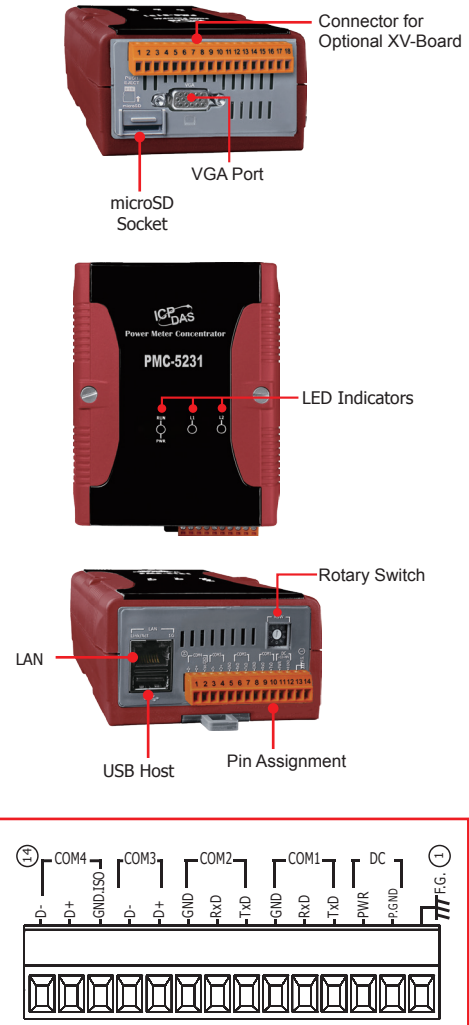
Applications



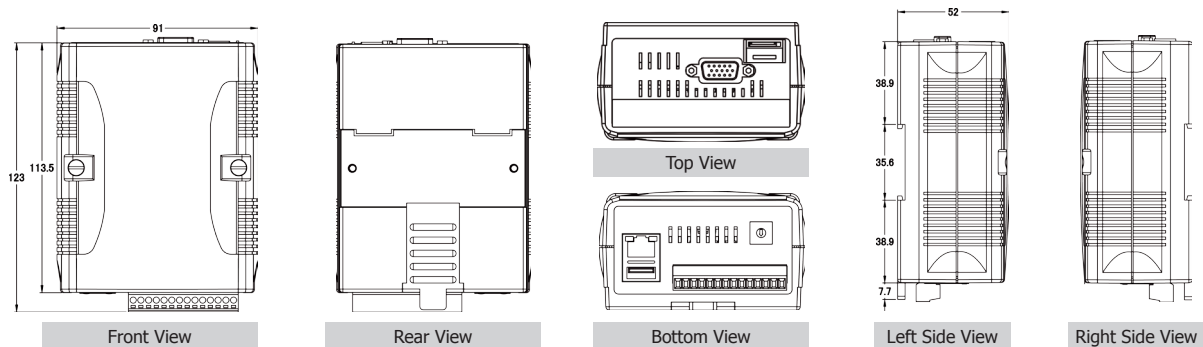
Specifications

Model	PMC-5231
System Software	
OS	Windows CE OS
Embedded Service	PMC Runtime, Web server, FTP server
CPU Module	
CPU	32-bit ARM CPU, 1 GHz
SDRAM	256 MB
Flash	256 MB
Expansion Flash Memory	microSD socket with one 4 GB microSD card (support up to 32 GB microSDHC card)
LED Indicator	Yes. LED for Power and System status
Rotary Switch	Yes (0 ~ 9)
Communication Ports	
Ethernet	RJ-45 x 1, 10/100/1000 Based-TX (Auto-negotiating, Auto MDI/MDI-X, LED indicators)
USB 2.0 (host)	1
COM 1	RS-232 (Tx/D, Rx/D, GND), non-isolated, Speed: 115200 bps max.
COM 2	RS-232 (Tx/D, Rx/D, GND), non-isolated, Speed: 115200 bps max.
COM 3	RS-485 (Data+, Data-), non-isolated, Speed: 115200 bps max.
COM 4	RS-485 (Data+, Data-), 2500 V _{DC} isolated, Speed: 115200 bps max.
Mechanical	
Dimensions (W x L x H)	91 mm x 132 mm x 52 mm
Installation	DIN-Rail Mounting
Environmental	
Operating Temperature	-25 to +75 °C
Storage Temperature	-40 to +80 °C
Ambient Relative Humidity	10 to 90% RH (non-condensing)
Power	
Input Range	+12 to +48 VDC
Consumption	4.8 W

Appearance



Dimensions (Units: mm)



Ordering Information

PMC-5231 CR	Power Meter Concentrator(RoHS)
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Accessories

Power Meter	Modbus RTU: PM-3033, PM-3133, PM-3112, PM-3114 and PM-4324 Modbus TCP: PM-3033-MTCP, PM-3133-MTCP, PM-3112-MTCP, PM-3114-MTCP and PM-4324-MTCP
DP-660	24 VDC/2.5 A, 60 W and 5 VDC/0.5 A, 2.5 W Power Supply with DIN-Rail Mounting
DP-1200 CR	24 VDC/5.0 A, 120 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-20-24 CR	24 VDC/1.0 A, 24 W Power Supply with DIN-Rail Mounting (RoHS)
MDR-60-24 CR	24 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)