



Power Meter Monitor

**Business and Mission-
Critical Solutions Provider**

X86 Advanced 15" Touch Industrial Computer

Data Sheet



Model: PMM0109
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DECLARATION OF CONFORMITY

This restriction is subject to protect the operational process of the system in the business environment, which will produce, use, and transmit radiofrequency energy. Harmful interference to radio communication could result if instructions to the correct installation and usage were not applied. The interference prevention cannot be guaranteed even with proper installation according to the manual. If the device causes a bad effect on the radio / TV signal. The user could preclude that by turning the device on/off.

When this device produces some harmful interference, the user can use the following measure to solve the interference problem:

1-Setting the receiving antenna's direction or location to increase the distance between this device and receiver.

2-Plug in the device's power connector into different circuits of the power outlet with the receiver.

3-If any technical support is needed, the dealer or experienced radio/TV technical personnel must be informed.

TECHNICAL SUPPORT AND SERVICE

Visit Pmm-usa.us to browse FAQs and get further details.

User should collect the following information before submitting technical support and service requests:

- Product name, model and serial number.
- Installed software (operating system, OS version, installed applications and so on).
- Full description of the problem
- Detailed information about every error.

SAFETY INSTRUCTIONS

- Only trained and qualified personnel can install, operate, or maintain the device.
- Before starting the installation, all safety precautions must be read, and warning labels affixed to the device must be observed. Doing so protects the device from damage and ensures your safety.
- Safety precautions provided in this document may not cover all safety aspects, note to always remain mindful of safety.
- PMM is not liable for any consequence that results from violation of regulations pertaining to safe operations or safety codes pertaining to design, production, and equipment usage.
- DO NOT use liquids or decontamination spray to clean the device surface and assure that it is totally disconnected while cleaning.
- Take all measures to prevent device drop before or during installation.
- Prior to connecting the device to power source, ensure the source and device voltage and power are 100% matched.
- Keep the cables in a suitable covered place.
- If the device is not used for a long time, shut off the power to avoid the damages by transient overvoltage.
- DO NOT allow any liquid flow into the device; to avoid fire or short circuit.
- The recommended storage temperature range should NOT be less than 30°C OR higher than 85°C.



Warning:

- Read the power source and device inlet carefully.
- Handle device with both hands.
- Clean and maintain the device using recommended, safe and suitable methods.



Caution:

If any unauthorized changes of settings or repairs are done without PMM approval; then user's rights of controlling this device will be canceled.



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KEY FEATURES

- Intel Celeron J1900
- Both windows and Linux operating systems
- 15.6" Touch screen LCD display
- 2x Ethernet 10/100/1000 ports
- 6x Communication ports; RS485 or RS232 or RS422
- Meets all power substation requirements
- -20 to 60°C system operating temperature
- Panel mounting
- Compact, fanless design
- Degree of Protection: IP54

TARGET APPLICATION

PMM0109 is made with intelligent and flexible solutions to equip the clients with all features needed to deploy their industrial applications with swiftness and reliability.

It is ideal, including, but not limited to the following target applications:

- Power Plant Controllers
- Manufacturing and industrial automation controllers
- PV optimizer
- Billing server
- Database synchronizer
- Security and surveillance
- Modbus data logger
- Database SQL

DESCRIPTION

PMM0109 is a powerful, durable and fanless industrial embedded computer, powered by Intel® Celeron J1900.

This computer has a fanless cooling feature making for less moving parts providing stability, safety and efficiency for ongoing automation processes. Also, being specifically designed for industrial use it is able to manage huge workloads of any industrial process with ease.

The competitive advantage of PMM0109 that differentiates it from the other CPUs is the 15.6" touch screen with a resolution of 1920x1080, which makes the interaction with the computer smooth and precise.

It is enclosed within a durable metal chassis along with having strong internal components it has been thoroughly tested on field and proven to be able to withstand harsh environmental conditions such as shock, vibration, extreme temperature ranges.

TECHNICAL SPECIFICATIONS

Processor

CPU	Intel Celeron J1900
DRAM	4 GB
Pre-installed OS	Windows 10 Pro

Computer Interface

Ethernet	2x ports 10/100/1000
Serial Communication Ports	2x DB9 (RS 232/RS 422/RS 485) 2x 3 wire (RS 232/RS 485) 2x 3 wire (RS 232)
IO Ports	1 x Audio Line-out 2 x 8Ω1W output 1 x Remote switching interface 1 x AT/ATX dial switch 1 x HDMI 1 x 14bit GPIO
Expansion Slots	Mini-PCIE x 1 full size cardSIM slotSupport 3G/4G module Mini-PCIE x 1 half size card support WIFI blue teeth
Storage	1 x mSATA 1 x SATA(2.5" SATA) 1 x M.2 ²
USB Ports	4x USB 2.0 type A 1x USB 3.0

LAN

LAN 1	Intel i210 Gbe LAN controller
LAN 2	Intel i210 Gbe LAN controller

LCD

Touch Screen Type	15.6" TFT-LCD, Capacitive touch panel
Resolution	1920x1080
Max Colours	262K

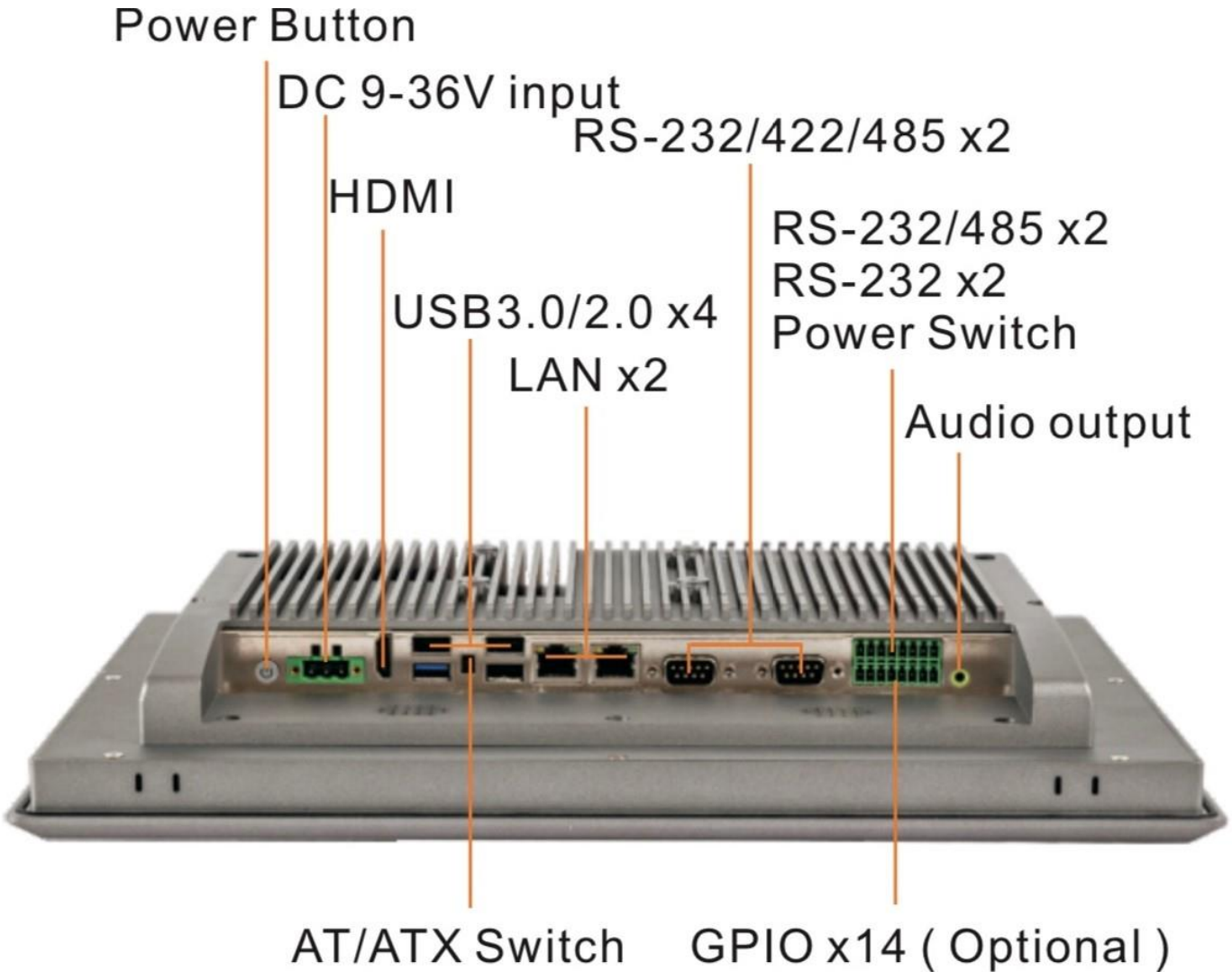
Power Parameters

Power Supply Options	9 – 36 VDC
Power Connector	Phoenix Contact 6 pins 3.5mm

Physical Characteristics

Housing	Metal
Dimensions	16*10*2.5 inch (399*248*55 mm)
Mounting Options	Panel mounting
Certifications	RoHS, CE and FCC

ENCLOSURE ASSEMBLY INFORMATION



ORDERING INFORMATION

Accessories

Panel Mounting Kit

2x Panel Mounting Bracket

CONTACT INFORMATION:

For direct inquiries or any customized orders, contact us on sales@Pmm-usa.us