10.1" INDUSTRIAL PANEL PC | PPC-4910



FEATURES

- NXP i.MX8M Plus with Up to Four 1.8GHz Cortex-A53 Processors
- PoE Ready Gigabit Ethernet Port, Second GbE Option
- 10.1" Up to 1000 nits LCD Panel with Projected Capacitive Touch Screen
- On-board WiFi/BT, RS232/RS485/CAN and GPIO Ports
- Support Android 10, Yocto Embedded Linux, Debian
- Integrated AI/ML Neural Processing Unit

The PPC-4910 is an all-in-one industrial Panel PC with 1280 x 800 touch screen. The system is equipped with NXP's i.MX8M Plus Quad Core ARM processor with a guaranteed 10 year lifespan. Edge to edge glass front panel meets IP65 rating. The integrated AI/ML Neural Processing Unit makes it perfect for smart industrial control, building automation, HMI, vending machine and interactive IoT applications.

SPECIFICATIONS

RUGGEDNESS

Protection	Front Panel IP65 Compliant, 3mmTempered Glass

SYSTEM

Processor	NXP i.MX8M Plus, 4 x ARM Cortex-A53 @ 1.8GHz, 1 x ARM Cortex-M7 @ 800MHz
Platform	ARM Cortex-A53
Memory	On-board LPDDR4, Up to 4GB
Storage	On-board iNAND Flash (16GB Default), 1 x Micro SD Slot, 265K EEPROM with Write Protect Control
OS	Android 10, Yocto Embedded Linux 5.10 Kernel, Debian Linux

DISPLAY

Screen Size	10.1" TFT Active Matrix LED Backlight
Resolution	1280 x 800
Brightness	350 nits, Optional: 1000 nits
View Angle	85° (Left), 85° (Right), 85° (Top), 85° (Bottom)
Contrast Ratio	800 : 1
Backlight Lifetime	30,000 Hr (Typical)
Touch Type	Projected Capacitive Touch Screen
Touch Controller	I^2C
Display Interface	LVDS

COMMUNICATIONS

Ethernet	1 x GbE with PoE Option, Second RGMII or PCIe GbE Option
Wi-Fi	WiFi 802.11 b/g/n/ac
Bluetooth	Bluetooth v5.0

POWER

Input Voltage	9V-24V DC, 12V DC or 24V DC/AC, PoE Option

I/O INTERFACE

Audio	Optional: 1 x Mono Class D Speaker, Up to 2W (4Ω) or Stereo Line-out
Camera	Support Dual MIPI CSI for Customization
AI	Neural Processing Unit (NPU) AI Accelerator Operating at Up to 2.3 TOPS
Watchdog Timer	Built-in
RTC	Support RTC Backup Battery
I/O Ports	1 x RS232/RS485/CAN 2 x GPIO Via Terminal Block 2 x USB 2.0 or 1 x USB 3.0 Type A 2 x USB 2.0 Pin Header 1 x USB Type C 3.0 OTG

MECHANICAL

Enclosure Material	Aluminum + Steel
Enclosure Color	Black or White
Dimensions	258 x 175 x 44.5mm (10.07" x 6.81" x 1.75")
Mounting Option	75 x 75mm VESA Mount
Cooling	Fanless

ENVIRONMENTAL

Temperature:	
- Operation	0°C to 60°C (32°F to 140°F)
- Storage	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 95% @ 40°C Non-condensing

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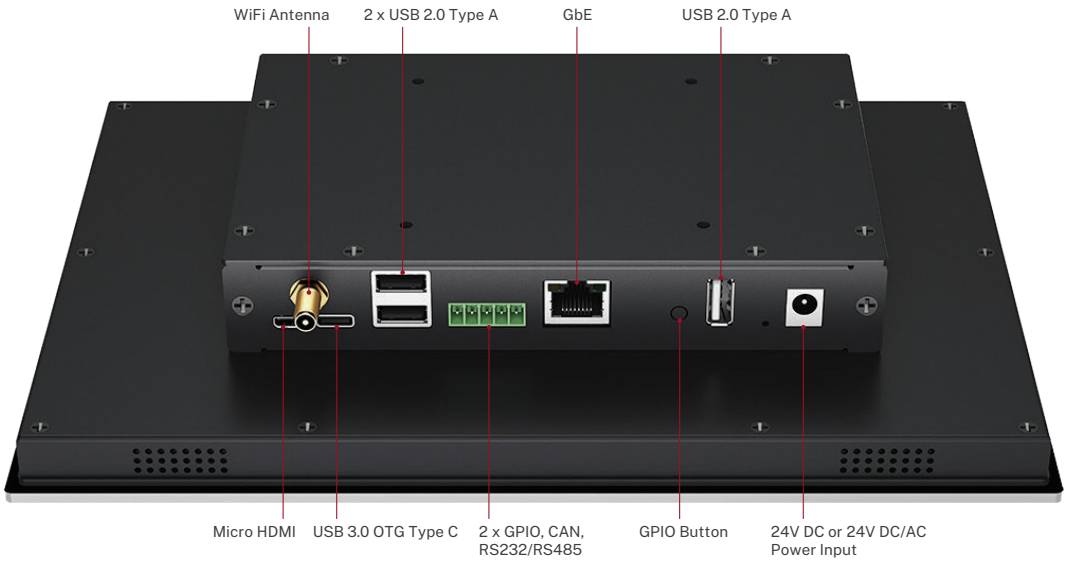
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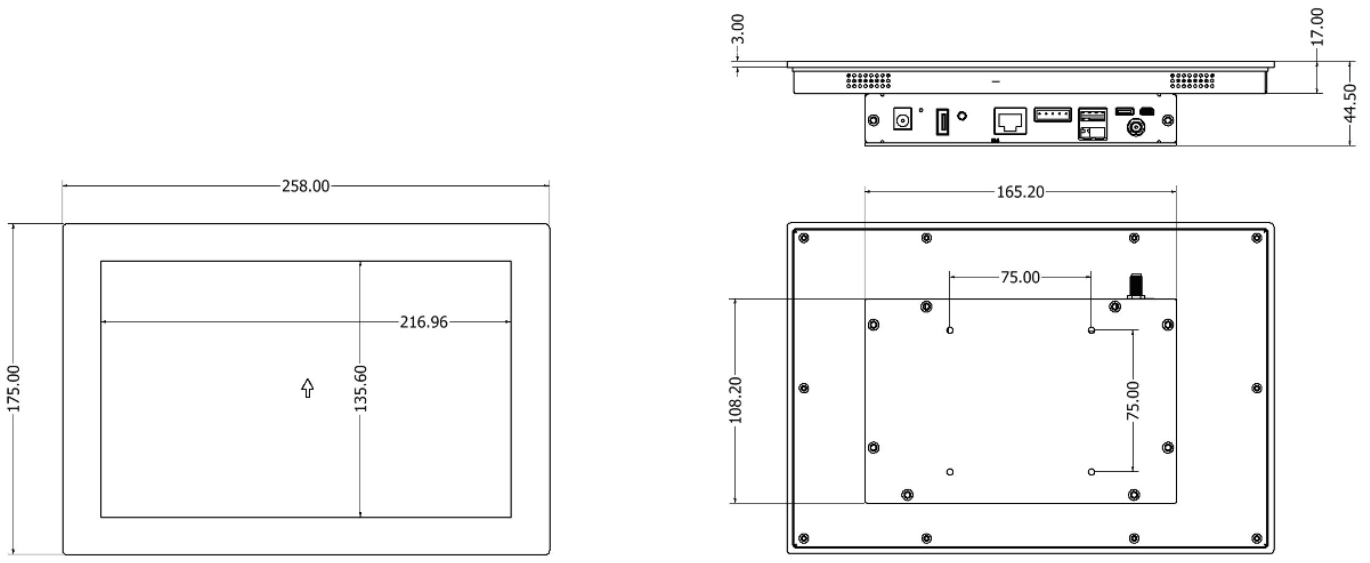
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SYSTEM LAYOUT



PRODUCT DIMENSIONS

Unit: mm



ORDER INFORMATION

Part No.	Description
PPC-4910-MQS	10.1" Panel PC / HMI with i.MX8MP Processor, Capacitive Touch Screen, Single GbE, 12V DC or 24V AC Power Input
PPC-4910-MQP	10.1" Panel PC / HMI with i.MX8MP Processor, Capacitive Touch Screen, Single GbE, PoE Power Input
PPC-4910-DQT	10.1" Panel PC / HMI with i.MX8MP Processor, Capacitive Touch Screen, Dual GbE, 9-24V DC Power Input

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