



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, 3mm Tempered 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 I²C

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 256 x 175 x 44.5mm (10.07" x 6.81" x 1.75")

Mounting Option 75 x 75mm VESA Mount

Cooling Fanless

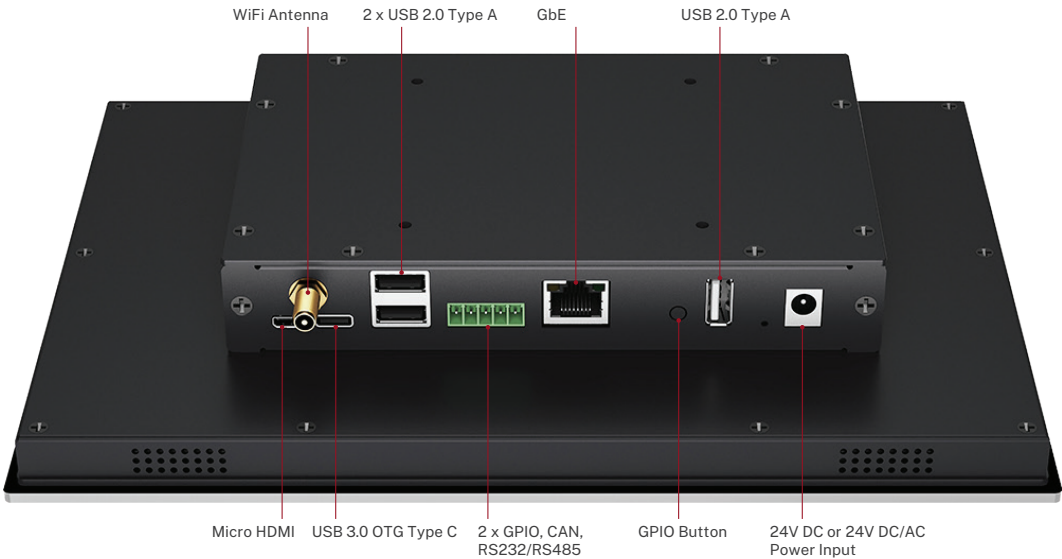
ENVIRONMENTAL

Temperature:

- **Operation** 0°C to 60°C (32°F to 140°F)
- **Storage** -20°C to 70°C (-4°F to 158°F)

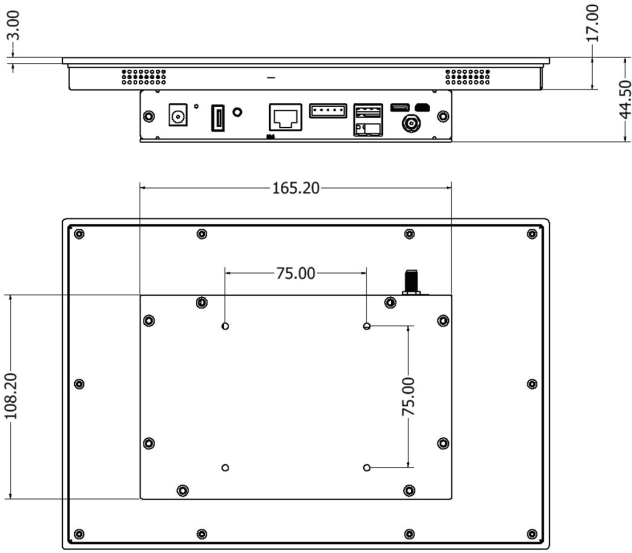
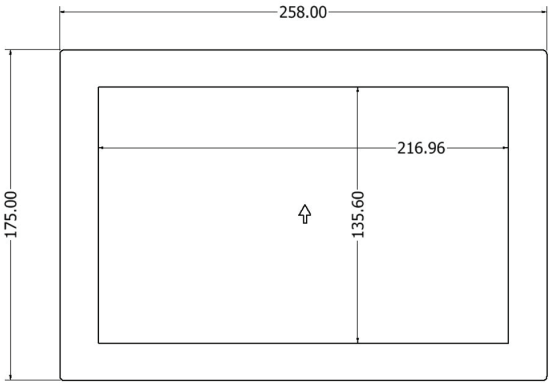
Humidity 10% to 95% @ 40°C Non-condensing

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