

## NXP i.MX8M Plus 10.1" Frameless AI/ML Ready Touch Panel PC / HMI with 3mm Tempered Glass Touch Screen, CAN bus, PoE, 12VDC or 24VAC Power



### INTRODUCTION

INTRODUCTIONThe 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.

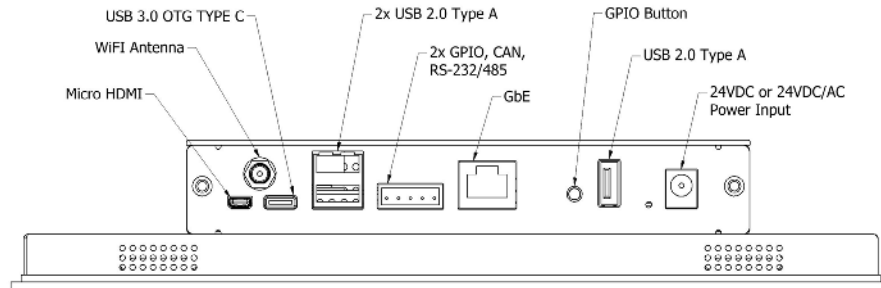
### FEATURES

- NXP i.MX8M Plus with up to four 1.8 GHz 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, RS-232/485/CAN and GPIO ports
- Support Android 10, Yocto Embedded Linux, Debian
- Integrated AI/ML Neural Processing Unit

### SPECIFICATIONS

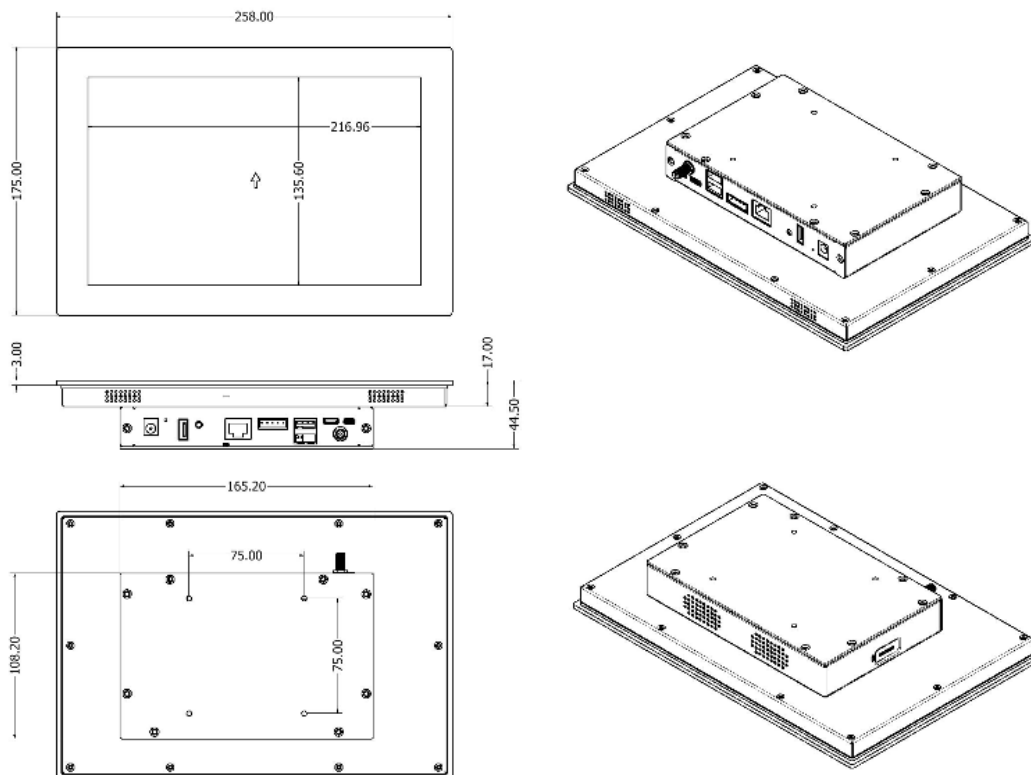
Processor	NXP i.MX 8M Plus, 4x ARM Cortex-A53 @ 1.8GHz, 1x Arm Cortex-M7 @ 800MHz	Display Type	10.1" TFT active matrix LED backlight
Platform	ARM Cortex-A53	Display Resolution	1280 x 800
System Memory	Onboard LPDDR4, up to 4GB	Luminance	350 or 1000 cd/m2
Ethernet	1 x GbE with POE option, second RGMII or PCIe GbE option	Contrast Ratio	800
WiFi	1x WiFi/Bluetooth (AP6255/56) module, 802.11 b/g/n/ac + BT v5.0	Viewing Angle	85 (Left), 85 (Right), 85 (Top), 85 (Bottom)
Storage	Onboard iNAND flash (16GB default), 1x micro SD slot, 265K EEPROM with write protect control	Backlight Lifetime	30,000Hr (Typical)
Cooling	Fanless	Touch Type	Projected capacitive touch screen
Display Interface	LVDS	Touch Controller	I2C
I/O Ports	1x RS-232/RS-485/CAN and 2x GPIO via terminal block 2x USB2.0 or 1x USB3.0 Type A 2 x USB 2.0 pin header 1x USB Type C 3.0 OTG	Enclosure Material	Aluminum + Steel
Audio	Optional 1 x mono Class D speaker, up to 2W(4Ω) or stereo line-out	Enclosure Color	Black or white (special order)
Watchdog timer	Built-in	Mounting Option	75 x 75mm VESA mount
RTC	Support RTC backup battery	Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Input Voltage	9V-24VDC, 12V DC or 24VDC/AC, POE option	Storage Temperature	-20 ~ 70° C (-4 ~ 158° F)
AI	Neural Processing Unit (NPU) AI accelerator operating at up to 2.3 TOPS	Operating Humidity	10 ~ 95% @ 40°C (Non-Condensing)
Camera Support	Dual MIPI CSI for customization	Protection	Front panel IP65 compliant, 3mm Tempered Glass
		Dimensions	256 x 175 x 44.5 mm (10.07" x 6.81" x 1.75")
		OS Support	Android 10, Yocto Embedded Linux 5.10 kernel, Debian Linux

## I/O LAYOUT



## 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, 12VDC 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