

## NXP i.MX8M 10.1" Frameless POE Touch Panel PC / HMI with 3mm Tempered Glass Touch Screen, WiFi and RS-232/485 Ports



### INTRODUCTION

The PPC-4310 is an all-in-one industrial Panel PC with WUXGA 1920 x 1200 touch screen. The system equips with NXP's i.MX8M Quad Core ARM processor with a guaranteed 10 year lifespan. Edge to edge glass front panel meets IP65 rating. The Gigabit Ethernet POE (Power over Ethernet) option makes it perfect for industrial control, building automation, HMI, vending machine and interactive IoT applications.

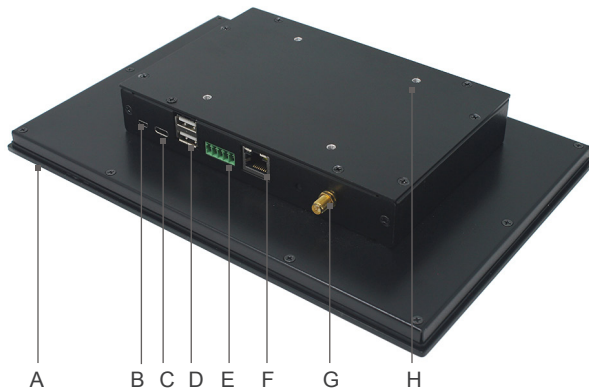
### FEATURES

- NXP i.MX8M application processor with long life cycle support
- 802.3af POE Gigabit Ethernet port, second PCIe GbE option
- 10.1" IPS LCD panel with projected capacitive touch screen
- On-board WiFi/BT, RS-232/485 and GPIO ports
- Support Android 8.1, 9.0, Yocto Embedded Linux, Ubuntu

### SPECIFICATIONS

Processor	NXP i.MX 8MQuad, 4x ARM Cortex-A53 @ 1.5GHz	Luminance	400 cd/m <sup>2</sup>
Platform	ARM Cortex-A53	Contrast Ratio	1300
System Memory	Onboard LPDDR4, up to 4GB	Viewing Angle	85 (Left), 85 (Right), 85 (Top), 85 (Bottom)
Ethernet	1 x 10/100/1000 Mbps GbE with POE option, second PCIe GbE (via optional add-on card)	Backlight Lifetime	25,000Hr (Typical)
WiFi	1x WiFi/Bluetooth USB module, 802.11 b/g/n + Bluetooth v4.0	Touch Type	Projected capacitive touch screen
Storage	Onboard iNAND flash (8GB default), 1x micro SD slot, 265K EEPROM with write protect control	Touch Controller	I <sup>2</sup> C
Cooling	Fanless	Enclosure Material	Aluminum + Steel
Display Interface	MIPI	Enclosure Color	Black, White front panel option
I/O Ports	1 x RS-232/RS-485 and 2 x GPIO via terminal block 1 x RS-232, GPIOs, SPI, 8ch DMIC, I2C via internal header 2 x USB 2.0 Type A 2 x USB 2.0 pin header 1x USB Type C 3.0 OTG	Mounting Option	Panel mount or 75 x 75mm VESA mount
Speaker	Optional 1 x mono Class D speaker, up 2W(4Ω) or stereo line-out	Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Watchdog timer	Built-in	Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
RTC	Support RTC backup battery	Operating Humidity	10 ~ 95% @ 40°C (Non-Condensing)
Input Voltage	5V DC or POE, 9V - 36V DC (via optional module)	Protection	Front panel IP65 compliant, 3mm Tempered Glass
Display Type	10.1" TFT active matrix LED backlight	Dimensions	256 x 173 x 39.5 mm (10.7" x 6.81" x 1.56")
Display Resolution	1920 x 1200	OS Support	Android 8.1, 9.0, Yocto Embedded Linux 4.x kernel, Ubuntu

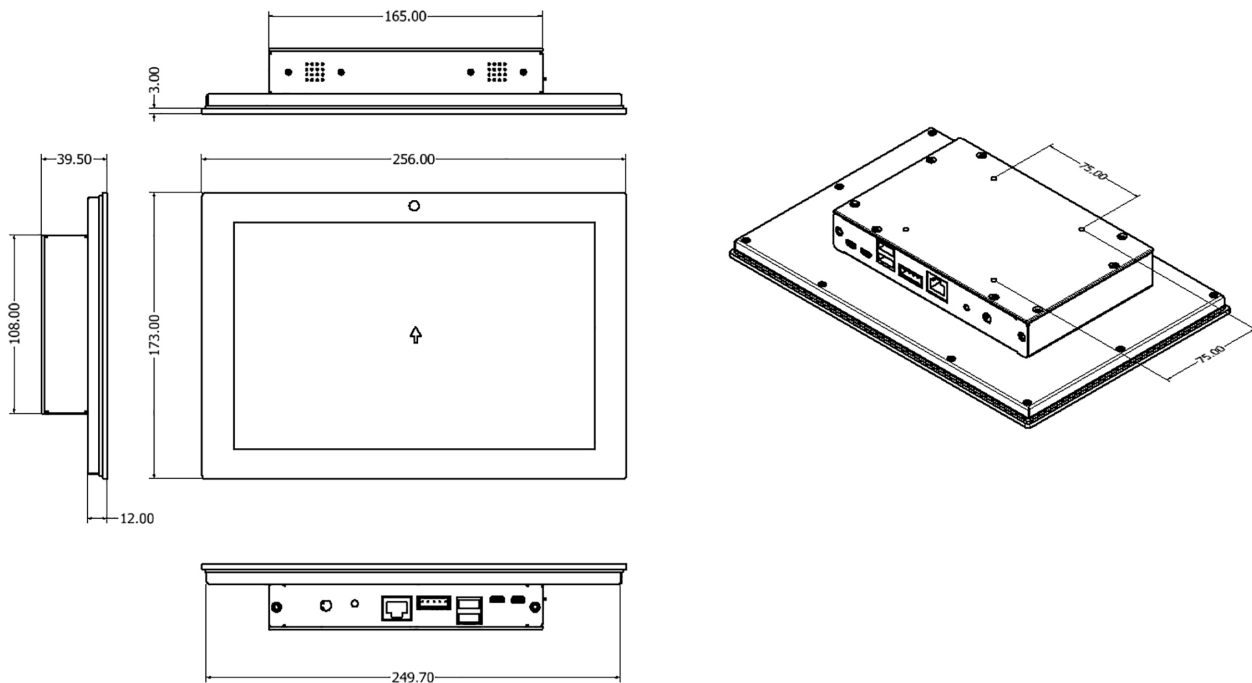
## I/O LAYOUT



- A. 3mm Tempered Glass
- B. Mini-HDMI
- C. USB 3.0 OTG
- D. 2x USB 2.0
- E. 2 x GPIO, 1x RS-232/485
- F. Ethernet 1 with POE ready
- G. External WiFi Antenna
- H. 75 x 75mm VESA Mount

## DIMENSIONS

Unit: mm



## ORDER INFORMATION

Part No.	Description
PPC-4310-MQS	10.1" Panel PC / HMI with i.MX8MQ processor, capacitive touch screen, single GbE, 5V DC power input
PPC-4310-MQP	10.1" Panel PC / HMI with i.MX8MQ processor, capacitive touch screen, single GbE, POE power input
PPC-4310-DQT	10.1" Panel PC / HMI with i.MX8MQ processor, capacitive touch screen, dual GbE, 5V DC power input
PPC-4310-DQP	10.1" Panel PC / HMI with i.MX8MQ processor, resistive touch screen, dual GbE, POE power input