



### FEATURES

- 10.1" IPS LCD Panel With Projected Capacitive Touchscreen
- NXP i.MX8M Application Processor
- IEEE 802.3af PoE Gigabit Ethernet Port
- Android 8.1, 9.0, Yocto Embedded Linux, & Ubuntu Linux
- Camera, Digital MICs & Light Sensor Options
- On-board WiFi/BT, RS-232/485 & GPIO Ports
- Smart Codec With Dual-core DSP For Digital MICs & Voice Control

The PPC-4310 is an all-in-one industrial Power over Ethernet (PoE) touch panel PC with a WUXGA 1920 x 1200 touchscreen. The system equips NXP's i.MX8M Quad Core ARM processor with a guaranteed 10-year lifespan. Edge to edge glass front panel is IP65 rated. The Gigabit Ethernet PoE option makes the PC perfect for industrial control, building automation, HMI and interactive kiosk computer applications.

### SPECIFICATIONS

#### SYSTEM

Processor	NXP i.MX 8MQuad, 4x ARM Cortex-A53 @ 1.8GHz
Platform	ARM Cortex-A53
Memory	Onboard LPDDR4, Up to 4GB
OS	Android 8.1, Android 9, Yocto Embedded Linux 4.X Kernel, Ubuntu
Storage	Onboard iNAND flash (8GB default) 1x micro SD slot 265K EEPROM with Write Protect Control

#### DISPLAY

Interface	MIPI
Display Type	TFT Active Matrix LED Backlight
Screen Size	10.1"
Resolution	1920 x 1200
Luminance	400 cd/m <sup>2</sup>
View Angle	85°
Contrast Ratio	1300:1
Backlight Lifetime	25,000 Hr (Typical)
Touch Screen	Projected Capacitive Touch Screen
Touch Controller	I <sup>2</sup> C

#### COMMUNICATIONS

Ethernet	1x 10/100/1000 Mbps GbE With PoE Option <b>Option:</b> Second PCIe GbE (via add-on card)
Wi-Fi	802.11 b/g/n USB Module
Bluetooth	Bluetooth v4.0 USB Module

#### I/O INTERFACE

Sensors	Proximity Ambient Light
Audio ( <b>Option</b> )	1x Mono Class D Speaker (2W, 4 ohm) Stereo Line-out
Ports	1x USB 3.0 2x USB 2.0 1x RS-232 DB9

#### MECHANICAL

Cooling	Fanless
Watchdog Timer	Built-in
RTC	Supports RTC Battery Backup
Enclosure Material	Aluminium and Steel
Enclosure Color	Black White
Mounting	75 x 75 mm VESA Mount Panel Mount
Dimensions	256mm x 173mm x 39.5mm (10.7" x 6.81" x 1.56")

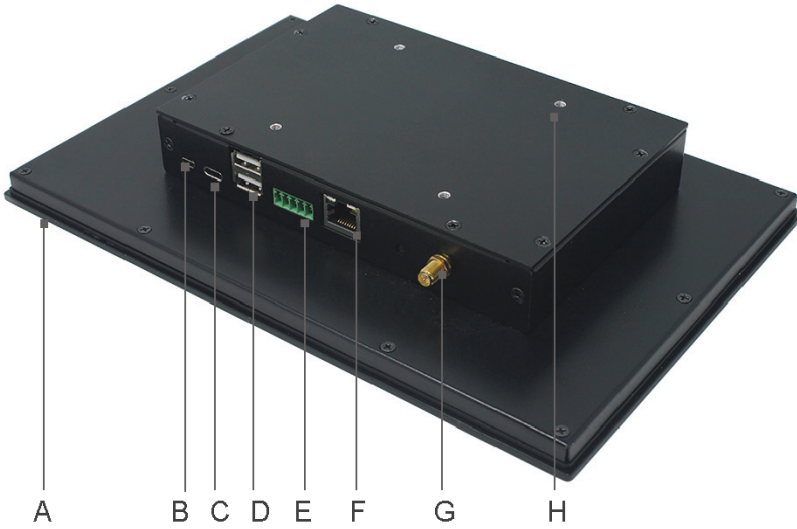
#### POWER

AC Adapter	5V DC or PoE, 9V-36V DC Input (via Optional IO Module)
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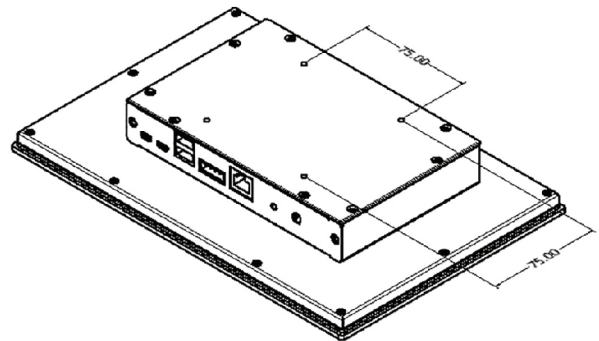
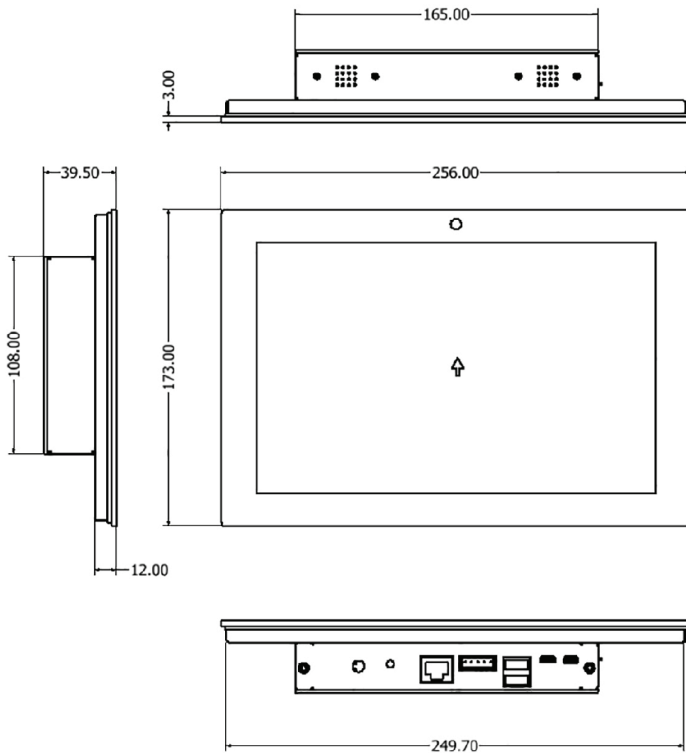
#### ENVIRONMENTAL

Protection	Front Panel IP65 3mm Tempered Glass
Operating Temp	0°C to 60°C (32°F to 140°F)
Storage Temp	-40°C to 85°C (-40°F to 185°F)
Humidity	10% to 95% (Non-condensing)

\*Specifications are representative. Specific product technology may be different than indicated.



- 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



## ORDER OPTIONS

PART NUMBER	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