10.1" INDUSTRIAL PANEL PC | PPC-4710

FEATURES

- NXP i.MX8M Mini Application Processor with Long Life Cycle Support
- Dual Gigabit Ethernet Ports, One Support 802.3at PoE Option
- 1280 x 800 IPS 10.1" LCD, 3mm Tempered Glass PCAP Touch Screen
- PCIe Expansion Support Google's Edge TPU for High-performance ML
- 12-24V DC/24V AC Power Input or PoE Power Input with Optional Module
- Support Android 9/10, Yocto Embedded Linux and Debian Linux

The PPC-4710 is an all-in-one frameless tablet style slim industrial Panel PC with 1280 x 800 high resolution IPS touch screen. The system equips with high performance NXP i.MX8M mini Quad-core ARM A53 processor. The dual Gigabit Ethernet with PoE (Power over Ethernet) option and 24V DC/AC power input support make it perfect for industrial control, building automation, HMI, vending machines and interactive IoT applications.

SPECIFICATIONS

RUGGEDNESS

Protection	Front Panel IP65 Compliant

SYSTEM

Processor	NXP i.MX8M Mini, 4 x ARM Cortex-A53 @ 1.8GHz, 1 x ARM Cortex-M4 @ 400MHz
Platform	ARM Cortex-A53
Memory	On-board 2GB LPDDR4, Up to 4GB
Storage	On-board iNAND Flash (8GB Default), 1 x Micro SD Slot, 265K EEPROM with Write Protect Control
OS	Yocto Embedded Linux (Kernel Version 5.10), Debian, Android

DISPLAY

Screen Size	10.1" TFT Active Matrix LED Backlight
Resolution	1280 x 800
Brightness	350 nits, Optional: 1000 nits
Touch Type	Projected Capacitive Touch Screen
Touch Controller	I^2C
Display Interface	LVDS

COMMUNICATIONS

Ethernet	1 x 10/100/1000Mbps GbE with PoE Option, Optional: Second 10/100/1000Mbps PCIe GbE
Wi-Fi	WiFi 802.11 b/g/n
Bluetooth	Bluetooth v4.0

POWER

Power Button	On I/O Panel
Input Voltage	12V-24V DC or 24V AC Via Barrel Connector or Terminal Block 802.3at PoE Option

I/O INTERFACE

Audio	1 x Mono Class D Speaker Out, 2W (4Ω), 2 (R/L) x Line Out Header
Watchdog Timer	Built-in
I/O Ports	1 x RS232/RS485 Via Terminal Block 2 x GPIO Via Terminal Block 2 or 3 x USB 2.0 Type A 1 x USB Type C 2.0 OTG/Host 1 x M.2 Type E PCIe Option

MECHANICAL

Enclosure Material	Aluminum, Steel Enclosure
Enclosure Color	Black
Dimensions	258 x 175 x 41mm (10.15" x 6.89" x 1.61")
Mounting Option	Panel Mount, 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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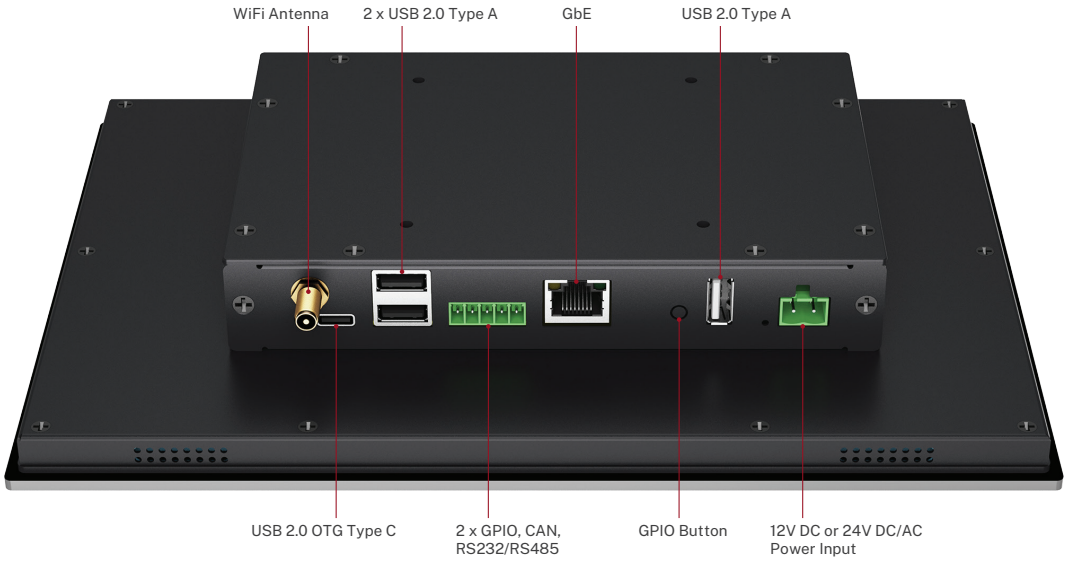
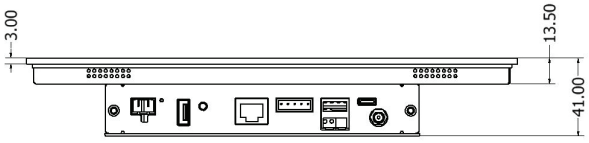
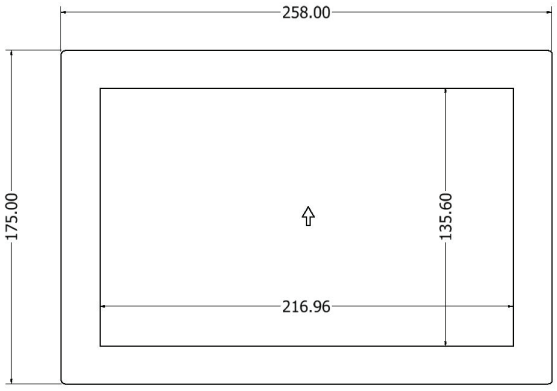
SYSTEM LAYOUT

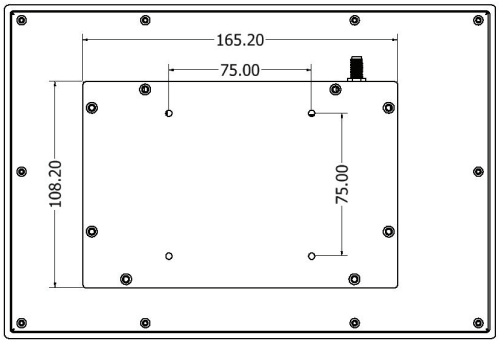


PRODUCT DIMENSIONS

Unit: mm







ORDER INFORMATION

Part No.	Description
PPC-4710-QSP	10.1" Panel PC / HMI with i.MX8M Mini Processor, two USB Type A, PoE Power Input
PPC-4710-QPT	10.1" Panel PC / HMI with i.MX8M Mini Processor, two USB Type A, Dual NIC and 9-24V DC Power Input
PPC-4710-QST	10.1" Panel PC / HMI with i.MX8M Mini Processor, three USB Type A, 12-24V DC/24V AC Power Input

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