

NXP i.MX6 10.1" Tablet Style Touch Panel PC / HMI with Dual Ethernet, WiFi and POE (Power over Ethernet) option



INTRODUCTION

The PPC-4210 is an all-in-one industrial Panel PC with a 1280 x 800 touch screen. The system equips with high performance NXP i.MX6 processor. The dual Gigabit Ethernet with 802.3af (POE Power over Ethernet) option makes it perfect for industrial control, building automation, HMI, vending machines and interactive IoT applications.

FEATURES

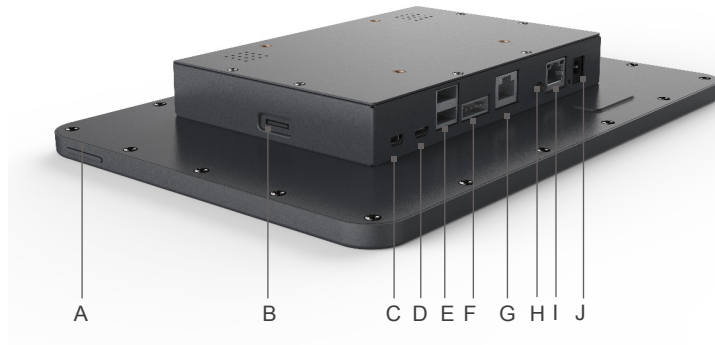
- NXP i.MX6 application processor with long life cycle support
- Dual Gigabit Ethernet ports, one support 802.3af POE option
- 10.1" LCD panel with projected capacitive touch screen
- On-board WiFi module and Bluetooth 4.1 BLE
- RS-232, RS-422/485 and CAN Bus port options
- NFC, camera, customizable buttons and light sensor options
- Supports Android 6.0.1, Debian Linux and Yocto Embedded Linux

SPECIFICATIONS

Processor	NXP i.MX6 1GHz Dual Lite or Quad
Platform	ARM Cortex A9
System Memory	1GB On-Board DDR3
Ethernet	2 x Gigabit Ethernet, RJ45, one support 802.3af POE power input (optional POE module)
WiFi	On-Board WiFi /BT module 802.11 b/g/n + BLE 4.1 with internal antenna connector option
Storage	On-board NAND flash (8GB default)
Cooling	Fanless
Display Interface	LVDS
I/O Ports	1 x RS-232/RS-485/CAN and 2 x GPIO via terminal block 1 x RS-232, GPIOs, SPI, CAN, I2C via internal header 2 x USB 2.0 Type A 2 x USB 2.0 pin header
Speaker	Optional 2x 2.1W
Watchdog timer	Built-in
RTC	Support RTC backup battery
Input Voltage	9V - 36V DC (Typical 12V) or POE
Display Type	10.1" TFT active matrix LED backlight
Display Resolution	1280 x 800

Luminance	350 cd/m ²
Contrast Ratio	800
Viewing Angle	85 (Left), 85 (Right), 85 (Top), 85 (Bottom)
Backlight Lifetime	15,000 Hr (Typical)
Touch Type	Projected capacitive touch screen
Touch Controller	I ² C
Enclosure Material	Plastics and metal
Enclosure Color	Black
Mounting Option	Wall Mount, panel mount or 75 x 75mm VESA mount
Operating Temperature	0 ~ 60°C (32 ~ 140°F)
Storage Temperature	-40 ~ 85° C (-40 ~ 185° F)
Operating Humidity	10 ~ 95% @ 40°C (Non-Condensing)
Protection	Front panel IP65 compliant
Dimensions	264 x 177.2 x 35.5 mm (10.39" x 6.97" x 1.39")
OS Support	Android 6.0.1, Embedded Linux 3.14, Debian 8

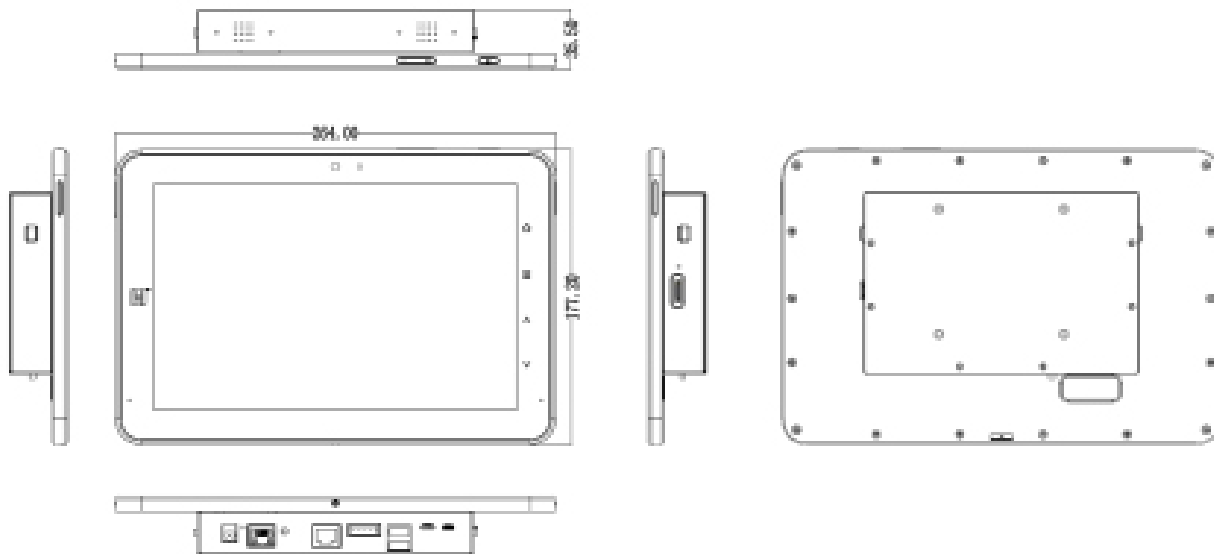
I/O LAYOUT



- A. LED Lightbar Option
- B. Micro SD
- C. mini-HDMI
- D. USB 2.0 OTG
- E. 2 x USB 2.0
- F. 2 x GPIO, 1x RS-232/485/CAN
- G. Ethernet 1 with POE ready
- H. Reset Button (GPIO)
- I. Ethernet 2 (optional)
- J. 9-36V DC In

DIMENSIONS

Unit: mm



ORDER INFORMATION

Part No.	Description
PPC-4210-DLS	10.1" Panel PC / HMI with i.MX6 DL processor, capacitive touch screen, single GbE, DC power input
PPC-4210-DLP	10.1" Panel PC / HMI with i.MX6 DL processor, capacitive touch screen, single GbE, POE power input
PPC-4210-DLT	10.1" Panel PC / HMI with i.MX6 DL processor, capacitive touch screen, dual GbE, DC power input
PPC-4210-QPT	10.1" Panel PC / HMI with i.MX6 Q processor, resistive touch screen, dual GbE, DC power input