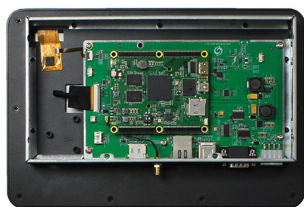


PPC-4510



10" LCD touch screen with Capacative touch

Freescall i.MX6 Cortex A9 dual core ARM processor (Quad Core option coming soon)

1GB onboard DDR3

4GB NAND flash

MicroSD

Mini-HDMI

5x serial UART

2x CAN

3x SPI

3x I2C

34x configurable GPIO

An open source modular architecture

PPC-4510 series Panel PC has an integrated Freescale i.MX6 Cortex-A9 SoC. Freescale i.MX6 supports 2D/3D graphics accelerators, a full HD 1080p encode/decode hardware engine and two independent display outputs. PPC-4510 adopts Freescale i.MX6 Dual Core Processor - ARM® Cortex™ A9 architecture as its SoC solution. The main features of this platform are followed by a system-on-module approach to Panel PC solution, with a heatsink-less, compact, reliable & great power management. Offering expansion of adding specific IO boards, or ability to add custom or semi-custom boards to provide application specific IO. Therefore, PPC-4510 platform is suitable for following applications: HMI (Human Machine Interface) Machine monitor IOT device monitoring and management Portable devices Fleet management / Navigation Industrial data collector

Specifications
Panel PC type:

Enclosed PPC

Processor
Processor:

Freescale IMX6

Clock Speed:

1 GHz

Real Time Clock:

Processor Misc.:

Freescale i.MX6DL (default) or i.MX6Q at 1GHz

CortexA9 Dual core (i.MX6DL)

CortexA9 Quad core (i.MX6Q)

Memory
Primary Flash:

4GB iNand Flash

Secondary Flash:

1x micro-SD card Slot

Memory Misc.:

up to 32GB iNand Flash (build to order option)

Primary I/O
GPIO:

34x GPIO

SDIO:

4x SDIO

Video Out:

DP

Dual 24bit LVDS

MIPI DSI

Audio:

I2S Audio

Ethernet:

1x 10/100
USB:
4x USB 2.0
Serial Ports:
5x COM
Watchdog:
Primary I/O Misc.:
WiFi Module and Antenna

Secondary I/O

CAN:
2x CAN
Video Capture:
MIPI CSI upto 4 Lane
8 Bit parallel camera
LPT Port:
Keypad:
PS/2:
Touch:
P-Cap Touch Panel

Expansion

Bus:
female sockets
Bus Misc.:

4x 50 pin with size of 1.27mm pitch top and bottom for I/O expansion. These 200-pin top and bottom female headers offers 24 bit Parallel Display Port, dual channel 24 bit LVDS, MIPI DSI up to 24 bit, MIPI CSI for up to 4 lanes, 8 bit parallel camera interface, GbE PHY, x1 PCIe PHY, 2x USB2.0, I2S audio codec output with Line-out/detect, Line-out, Mic-in/detect, speaker out (1W), 4 bit SDIO, and IOMUX outputs: up to 5x UART, 2x CAN, 3x SPI, 3x I2C, 34 configurable GPIO

Analog

D/A:

Dimensions

10.5 × 6.9 × 2 in

Power Requirements

9V – 24V DC, via Molex connector.

Environmental

Low Operating Temperature:
0 C
High Operating Temperature:
50 C
Upper Operating Humidity:
95%

Pricing

Product variations:

PPC-4510-0
PPC-4510, 10" HMI Panel PC, IMX6 Dual Core CPU, 1GB Ram, 4GB Flash, micro-SD, 1x serial, 4x USB2, 1xGBE, Wifi, HDMI
\$450.00
Order:

Parent Product:

Disk Interface:

SATA (optional)

Source URL: <https://www.emacinc.com/content/ppc-4510>