Chipsee

PPC-CM5-101

Powered by Raspberry Pi CM5 Industrial Panel PC with Metal Enclosure

The **PPC-CM5-101** is a **10.1**-inch industrial panel PC powered by the **Raspberry Pi® Compute Module 5**, featuring the **Quad Cortex®-A76** processor with a speed of 2.4GHz.
It features a durable **metal casing** designed for easy installation using either **panel** or **VESA** mounting methods. The metal enclosure is available in two colours: black and grey.

With its powerful performance, edge AI capabilities, and integration into the vast Raspberry Pi ecosystem, this panel PC delivers a versatile computing solution that meets the needs of engineers and developers across various industries.

The Raspberry Pi® Compute Module 5 (CM5) is available in multiple configurations.
With the PPC-CM5-101 industrial PC, you can choose the CM5 module that best meets your requirements during the ordering process, including the **Hailo-8 AI** Module.

Technical Features

The **PPC-CM5-101** is a powerful industrial solution that combines advanced hardware and robust connectivity options to meet the demands of various industrial projects.

The **Raspberry Pi Compute Module 5** (**CM5**), featuring a quad-core Cortex-A76 processor running at 2.4GHz and up to **8GB** of **LPDDR4X-4267 SDRAM**, delivers exceptional performance.

The device supports a wide range of communication protocols, including RS232, RS485, and CAN, enabling easy and versatile integration with various systems.

Its **10.1”** display includes a **10-point capacitive touchscreen** protected by **armored glass** for enhanced durability.
Combined with an extended operating temperature range of **-20°C to +70°C**, the PPC-CM5-101 ensures reliable performance, even in challenging environments.

Raspberry Pi OS

All products based on Raspberry Pi come with the latest version of **Raspberry Pi OS** pre-installed.
We have also included all the necessary drivers, allowing you to easily access every hardware feature using any standard development tool.

If your project requires an operating system not on our list, please feel free to contact us, and we will create a customised version tailored to your specific needs.

Weight	2400 g
Dimensions	276 × 194 × 46 mm
Net Weight	1600 g
CPU	ARM: Raspberry Pi CM5
CPU Frequency	Quad(4) Core Cortex-A76 at 2.4GHz
RAM	Based on CM5
eMMC	Based on CM5
Storage	Supports 1 x TF Card
Display Size	10.1”
Display resolution	1280*800
Brightness	400 NIT
Touch Screen	Capacitive
PCIe	PCIe W 2 × 1 (5Gbps), M.2 M-Key 2230/2242/2260/2280 socket (Optional)
USB	1x USB 3.0 HOST, 1 x USB OTG
CAN	1 x CAN
GPIO	8 Channels, 4 Input, 4 Output
HDMI	1 x HDMI 2.0 Out, can be driven up to 4K 60FPS
RS232	2 x RS232 by default, up to 4 x RS232
RS485	2 x RS485 by default. Optionally, these 2 x RS485 can be configured to RS232
Ethernet	1 x Giga LAN
I2C	Not supported.
WiFi/BT	Depends on CM5
4G	Optional
PoE	Optional
Audio	3.5mm Audio Out Connector, Internal 2W Speaker
Buzzer	Onboard, driven by GPIO
ZigBee	N/A
RTC	High accuracy RTC with farad capacitor, can work 1 week after power off (default). High accuracy RTC with lithium coin battery, can work 3 years after power off (optional).
Current at 15V	560mA typical, 880mA max
Power Input	15-30V DC
Power Consumption	8.4W, 13.3W Max
Working Temperature	-20°C ~ 70°C.
Camera	Optional
Operating System	Raspberry Pi OS
Mounting Method	VESA, PANEL