ED-HMI3010-101C

10.1 inch Industrial Panel PC Based on Raspberry Pi 5

- 10.1" TFT, resolution 1280x800, multi-point capacitive touch screen
- Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU
- Up to 8GB LPDDR4X RAM, 32GB or 64GB SD Card storage
- 1 x Gigabit ethernet port, 2 x USB 3.0, 2 x USB 2.0
- Dual 4Kp60 HDMI display output
- 5V DC power input via USB-C
- 8-megapixel front camera is optional
- Aluminum CNC + sheet metal case, fanless design, providing excellent cooling performance



Specifications

System	
CPU	Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76
VPU	4Kp60 HEVC decoder
GPU	OpenGL ES 3.1 & Vulkan 1.2
Memory	4GB and 8GB LPDDR4X-4267 SDRAM are optional
Storage	32GB and 64GB SD Card are optional

Software	
Operating System	• Raspberry Pi OS(Desktop) 32-bit • Raspberry Pi OS(Lite) 32-bit • Raspberry Pi OS(Desktop) 64-bit • Raspberry Pi OS(Lite) 64-bit

Front I/O	
Camera	Built-in 8-megapixel front camera(optional).

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Side I/O	
USB 2.0	2 x USB 2.0 ports, dual layer type A connector, each channel supports up to 480Mbps.
USB 3.0	2 x USB 3.0 ports, dual layer type A connector, each channel supports up to 5Gbps.
1000M Ethernet	1 x adaptive 10/100/1000M ethernet port, RJ45 connector. It can be used to access the network.
SD Card Slot	1 x Micro SD card slot, which is used to install SD card. It supports booting the OS from SD card.
HDMI	2 x HDMI ports, Micro HDMI connector, supporting 4K 60Hz
Power	1 x power in port, USB Type-C connector, supporting 5V/5A DC power input.

Internal I/O	
PCIe	1 x PCIe2.0 port, reserving to connect peripherals.
PoE	1 x PoE port, reserving to connect PoE module.

LCD	
LCD Size	10.1" TFT
Resolution	1280 x 800
Colors	16.7MB
Active Area	216.576mm(H) x 135.36mm(V)
Backlight	LED
MTBF	>30000h
Luminance	250cd/m^2
Contrast Ratio	1000:1
Response Time	30ms
Viewing Angle (CR≥10)	80°(L)/80°(R)/80°(U)/80°(D)

Touch Screen	
Type	Multi-point Capacitive Touch Screen
Transmittance	≥85%
Connection Method	COF
Controller Interface	I2C
Driver Support	Linux
Multi-touch	10 points
Surface Hardness	6H

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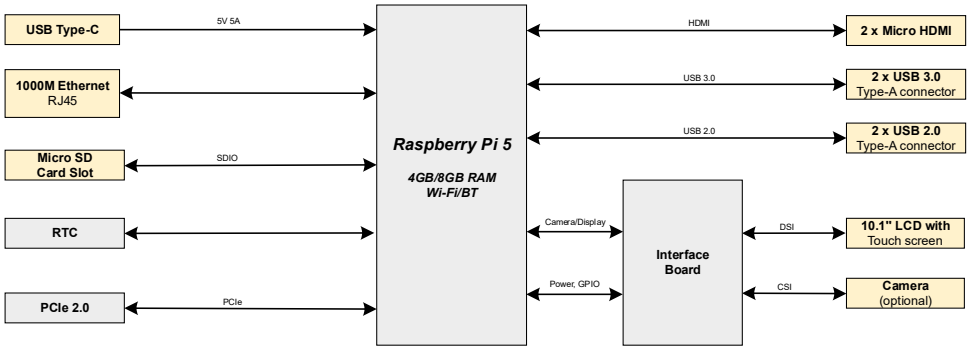
Electrical Characteristics	
Input Voltage	5V DC
Power Consumption	25W(Max)

Mechanical Characteristics	
Dimensions	258mm x 172mm x 38mm (WxDxH)
Weight	About 900g
Installation	Embedded front installation

Wireless	
Wi-Fi	Dual-band 802.11ac Wi-Fi
Bluetooth	Bluetooth 5.0 / Bluetooth Low Energy (BLE)

Environmental & Regulatory	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-25°C ~ 60°C
Ambient Humidity	5% ~ 95%(non-condensing)
Certifications	• **FCC** FCC 47 CFR Part 15 Subpart B • **CE** EN IEC 62368-1/EN IEC 62311/EN IEC 61000-3-2/EN IEC 61000-3-3 EN 55032/EN 55035 EN 301 489-1/EN 301 489-3/EN 301 489-17/EN 301 489-52 EN 301 328/EN 301 440/EN 301 511/EN 301 908-1/EN 301 908-2

System Diagram

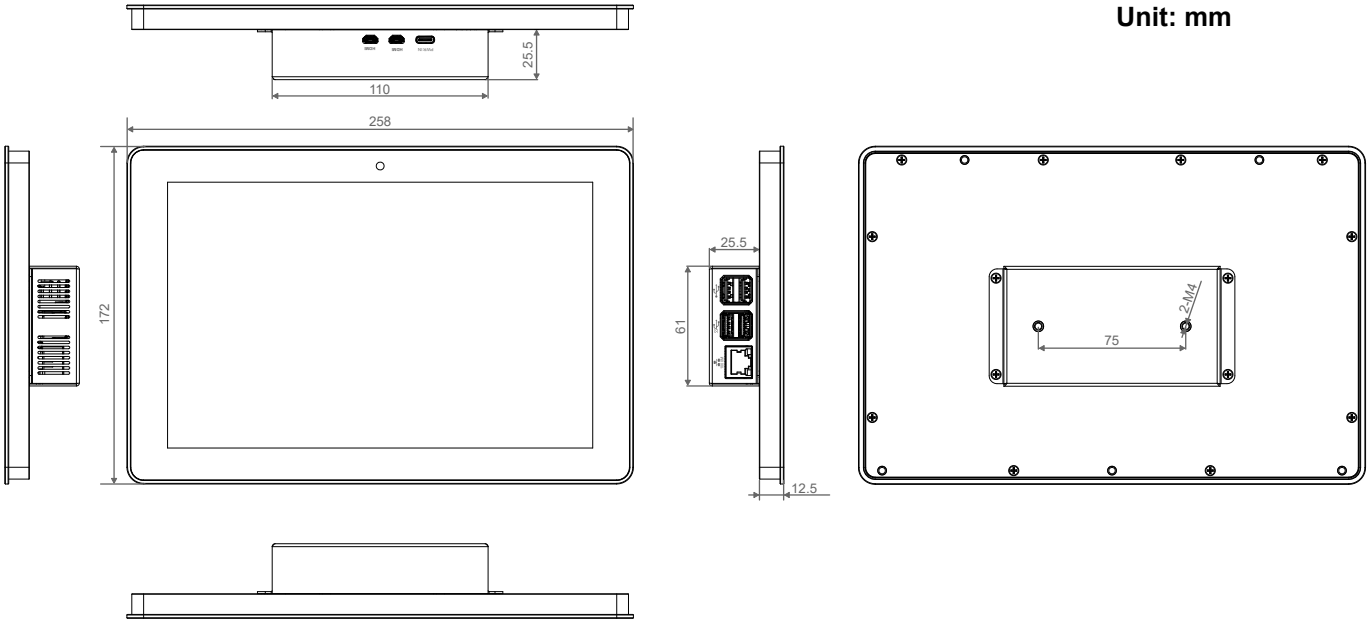


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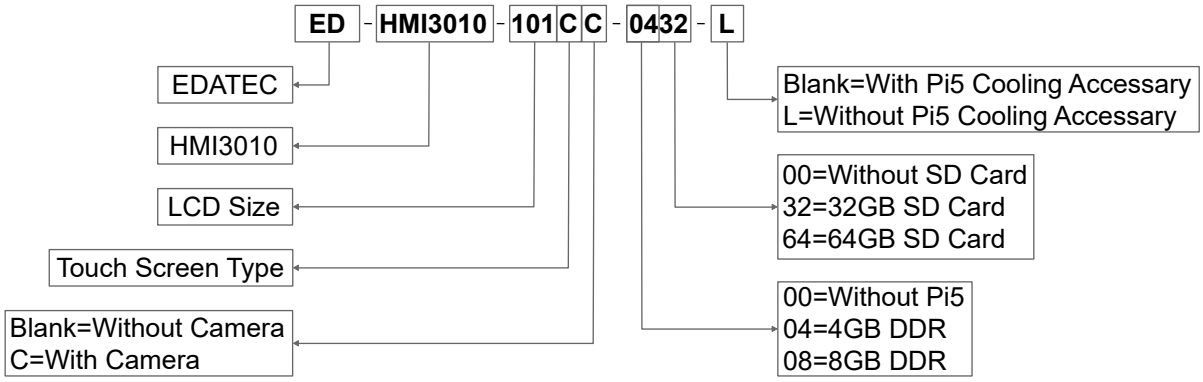
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Dimensions

Unit: mm



Ordering Code



Example

P/N: **ED-HMI3010-101CC-0432**

Configuration: 10.1-inch Industrial Panel PC Based on Raspberry Pi 5, with 4GB DDR, Camera, 32GB SD card and Pi5 Cooling Accessary.

Special Model Description:

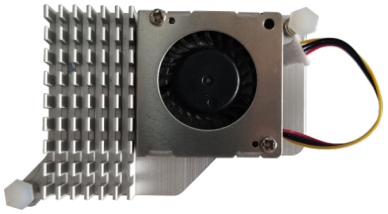
Model	Description
ED-HMI3010-101C-0000-L	10.1-inch LCD Touch Screen for Raspberry Pi 5, with metal case.
ED-HMI3010-101CC-0000	10.1-inch LCD Touch Screen for Raspberry Pi 5, with metal case, camera and Pi5 Cooling Accessary.
ED-HMI3010-101C-0032	10.1-inch LCD Touch Screen for Raspberry Pi 5, with metal case, 32GB SD card and Pi5 Cooling Accessary.
ED-HMI3010-101CC-0064-L	10.1-inch LCD Touch Screen for Raspberry Pi 5, with metal case, camera and 64GB SD card.
NOTE: If you purchase a product model with Raspberry Pi 5, you need select the Pi5 Cooling Accessary.	

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Optional Accessory:

You can also choose Raspberry Pi Active Cooler for Raspberry Pi 5 according to actual needs.

Model	Description	Picture
SC1148	Raspberry Pi Active Cooler	

Packing List

- 1 x ED-HMI3010-101C Unit
- 4 x buckles (including 4xM4*8 screws and 4xM4*16 screws)

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