



ED-HMI3010-070C

Datasheet

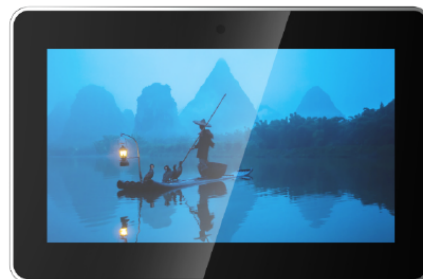
by EDA Technology Co., Ltd

built: 2024-11-27

ED-HMI3010-070C

7.0-inch Industrial HMI Based on Raspberry Pi 5

- 7.0" TFT, resolution 1024x600, 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 1.0
Memory	4GB and 8GB LPDDR4X-4267 SDRAM are optional
Storage	32GB and 64GB SD Storage 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)

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 fromSD card.
HDMI	2 x HDMI ports, Micro HDMI connector, supporting 4K 60Hz

Side I/O	
Power	1 x power in port, USB Type-C connector, supporting 5V/5A DC power input.

Internal I/O	
PCIe	1 x PCIe 2.0 port, reserving to connect peripherals.
PoE	1 x PoE port, reserving to connect PoE module.

LCD	
LCD Size	7.0" TFT
Resolution	1024 x 600
Colors	16.7MB
Active Area	154.21mm (H) x 85.92mm (V)
Backlight	LED
MTBF	>30000h
Pixel Pitch	400cd/m ²
Contrast Ratio	800:1
Response Time	30ms
Viewing Angle (CR≥10)	85° (L) / 85° (R) / 85° (U) / 85° (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

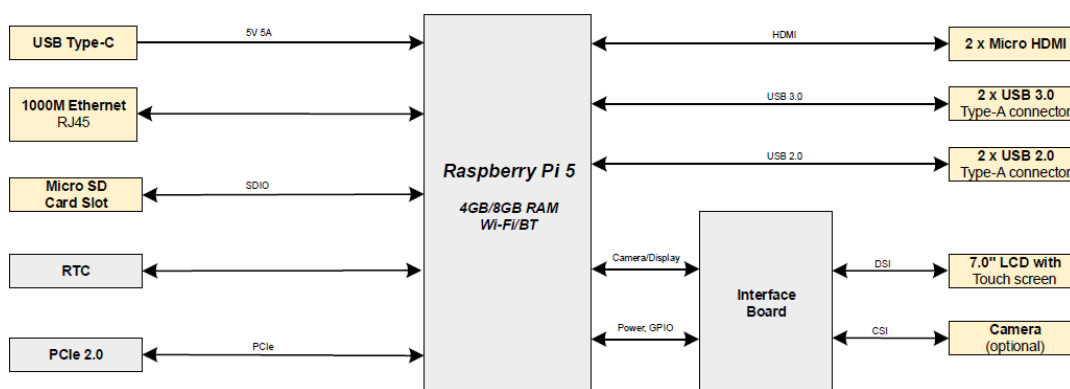
Electrical Characteristics	
Input Voltage	5V DC
Power Consumption	25W (Max)

Mechanical Characteristics	
Dimensions	188mm x 123mm x 39mm (WxDxH)
Weight	About 800g
Installation	Embedded front installation

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

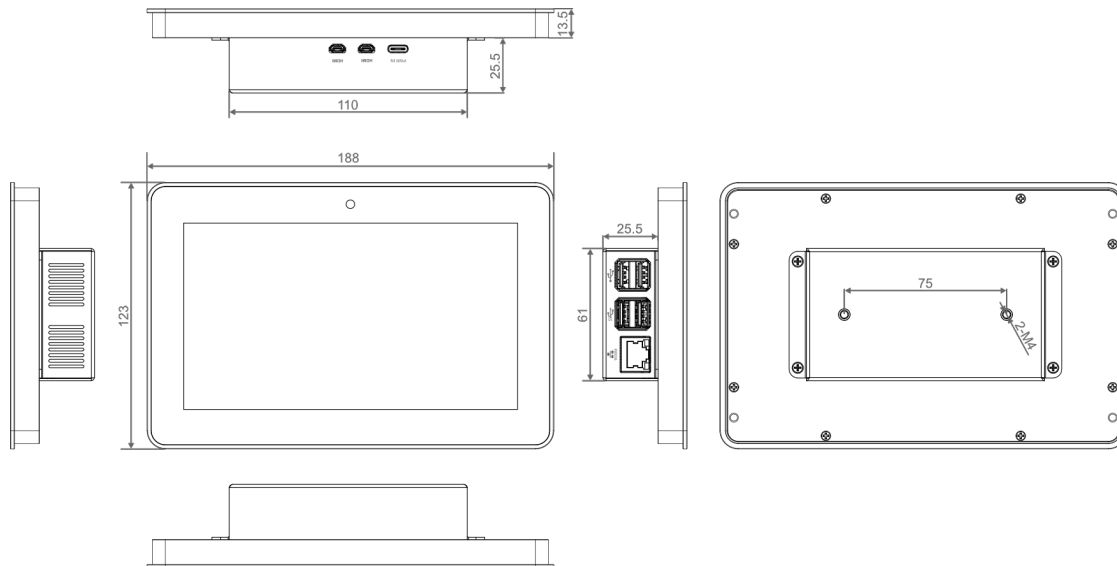
Environmental & Regulatory	
Operating Temperature	-20°C ~ 60°C
Storage Temperature	-25°C ~ 60°C
Ambient humidity	5% ~ 95% (non-condensing)
Certifications	FCC FCC 47 CFR Part 15 Subpart B CE EN IEC 62368-1/EN IEC 62311/EN IEC 61000-3-2/EN IEC 61000-3-3 EN 55032/EN 55035 EN 301 489-1/EN 301 489-3/EN 301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

System Diagram

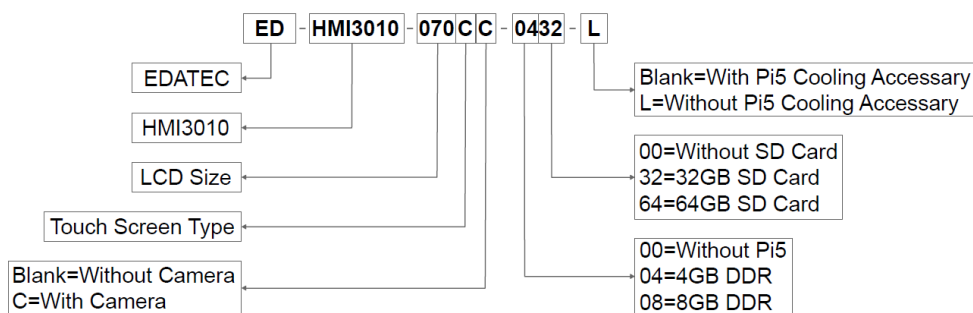


Dimensions

Unit: mm



Ordering Code



Example

P/N: **ED-HMI3010-070CC-0432**

Configuration: 7.0-inch Industrial HMI Based on Raspberry Pi 5, with 4GB DDR, Camera, 32GB SD card and Pi5 Cooling Accessory.

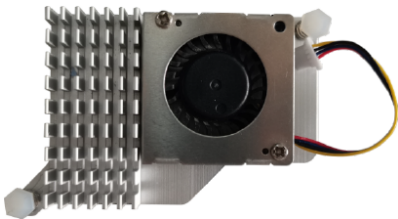
Special Model Description

Model	Description
ED-HMI3010-070C-0000-L	7.0-inch LCD Touch Screen for Raspberry Pi 5, with metal case.
ED-HMI3010-070CC-0000	7.0-inch LCD Touch Screen for Raspberry Pi 5, with metal case, camera and Pi5 Cooling Accessory.
ED-HMI3010-070C-0032	7.0-inch LCD Touch Screen for Raspberry Pi 5, with metal case, 32GB SD card and Pi5 Cooling Accessory.
ED-HMI3010-070CC-0064-L	7.0-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 Accessory.

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	

You can choose a Raspberry Pi Power Adapter according to actual needs.

Model	Description	Picture
SC1149	Raspberry Pi 27W USB-C Power Supply White UK	
SC1150	Raspberry Pi 27W USB-C Power Supply White AU	
SC1151	Raspberry Pi 27W USB-C Power Supply White IN	
SC1152	Raspberry Pi 27W USB-C Power Supply White EU	
SC1153	Raspberry Pi 27W USB-C Power Supply White US	
SC1154	Raspberry Pi 27W USB-C Power Supply Black UK	
SC1155	Raspberry Pi 27W USB-C Power Supply Black AU	
SC1156	Raspberry Pi 27W USB-C Power Supply Black IN	
SC1157	Raspberry Pi 27W USB-C Power Supply Black EU	
SC1158	Raspberry Pi 27W USB-C Power Supply Black US	

Packing List

- 1 x ED-HMI3010-070C Unit
- 1 x Mounting Kit (including 4 x buckles, 4xM410 screws and 4xM416 screws)

FAQ