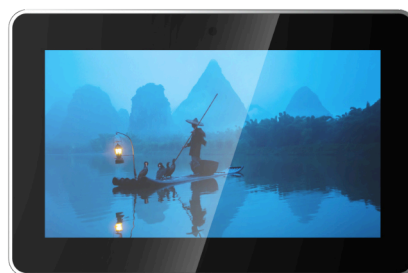


# ED-HMI3010-070C

## 7.0-inch Industrial Panel PC 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 1.2                              |
| Memory  | 4GB and 8GB LPDDR4X-4267 SDRAM are optional             |
| Storage | 32GB and 64GB SD Card are optional                      |

| Software         |                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | <ul style="list-style-type: none"><li>• Raspberry Pi OS(Desktop) 32-bit</li><li>• Raspberry Pi OS(Lite) 32-bit</li><li>• Raspberry Pi OS(Desktop) 64-bit</li><li>• Raspberry Pi OS(Lite) 64-bit</li></ul> |

| 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 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              | 7.0" TFT                    |
| Resolution            | 1024 x 600                  |
| Colors                | 16.7MB                      |
| Active Area           | 154.21mm(H) x 85.92mm(V)    |
| Backlight             | LED                         |
| MTBF                  | >30000h                     |
| Luminance             | 400cd/m <sup>2</sup>        |
| 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  |

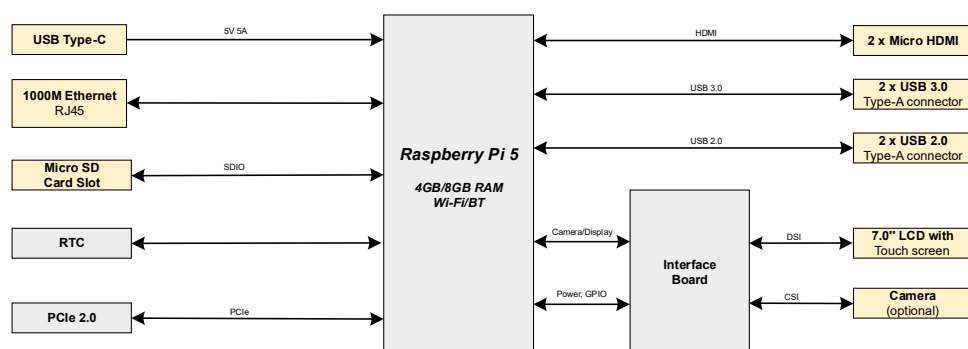
## Wireless

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

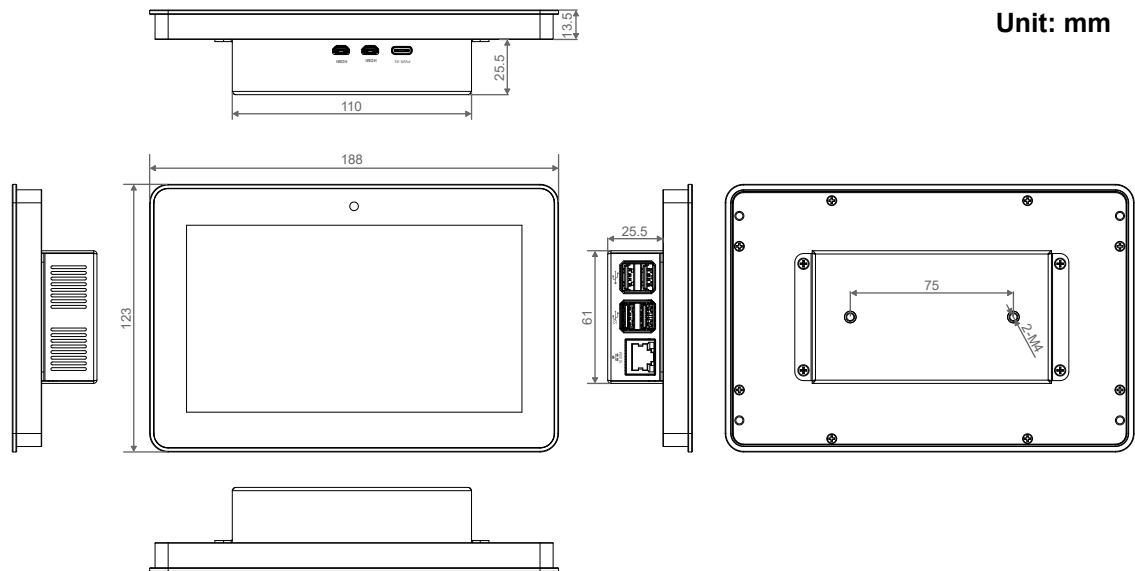
## Environmental & Regulatory

|                       |                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature | -20°C ~ 60°C                                                                                                                                                                                                                                                                                                                          |
| Storage Temperature   | -25°C ~ 60°C                                                                                                                                                                                                                                                                                                                          |
| Ambient Humidity      | 5% ~ 95%(non-condensing)                                                                                                                                                                                                                                                                                                              |
| Certifications        | <ul style="list-style-type: none"> <li>• <b>FCC</b><br/>FCC 47 CFR Part 15 Subpart B</li> <li>• <b>CE</b><br/>EN IEC 62368-1/EN IEC 62311/EN IEC 61000-3-2/EN IEC 61000-3-3<br/>EN 55032/EN 55035<br/>EN 301 489-1/EN 301 489-3/EN 301 489-17/EN 301 489-52<br/>EN 301 328/EN 301 440/EN 301 511/EN 301 908-1/EN 301 908-2</li> </ul> |

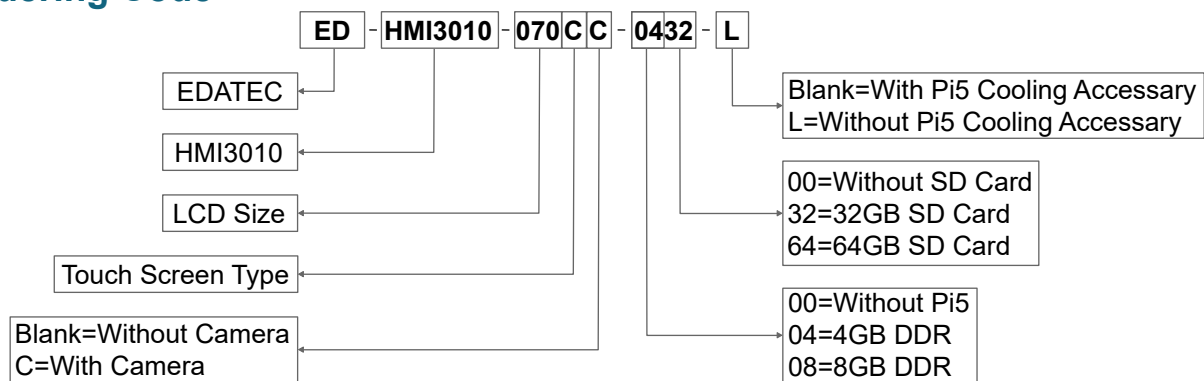
## System Diagram



Dimensions



Ordering Code



Example

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

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

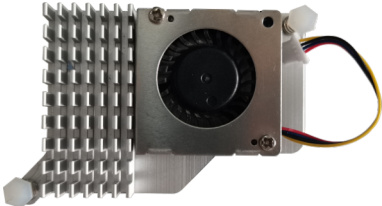
Special Model Description:

| 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 |  |

Packing List

- 1 x ED-HMI3010-070C Unit
- 4 x buckles (including 4xM4\*8 screws and 4xM4\*16 screws)