



# **ED-HMI3010-156C**

## **Datasheet**

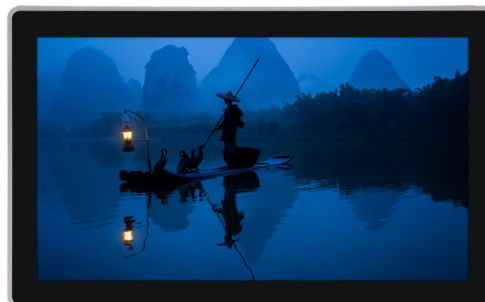
by EDA Technology Co., Ltd

built: 2025-09-23

# ED-HMI3010-156C

## 15.6-inch Industrial HMI Based on Raspberry Pi 5

- 15.6" TFT, resolution 1920x1080, multi-point capacitive touch screen
- Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU
- Up to 16GB LPDDR4 RAM, 64GB SD Card storage
- 1 x Gigabit ethernet port, 2 x USB 3.0, 2 x USB 2.0
- 1 stereo audio output, support headphone and speaker
- 12V power input on DC Jack connector
- Support backlight adjustment via DDCUI software
- Embedded installation, compatible with VESA standard bracket installation



## Specifications

| System  |                                                         |
|---------|---------------------------------------------------------|
| CPU     | Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 |
| VPU     | H.265 (HEVC), up to 4Kp60 decode                        |
| GPU     | OpenGL ES 3.1 & Vulkan 1.2                              |
| Memory  | Options for 8GB, 16GB LPDDR4X-4267                      |
| Storage | 64GB SD Storage Card                                    |

| Software         |                                                                   |
|------------------|-------------------------------------------------------------------|
| Operating System | Raspberry Pi OS (Desktop) 64-bit<br>Raspberry Pi OS (Lite) 64-bit |

| Side I/O       |                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------|
| 1000M Ethernet | 1 x adaptive 10/100/1000M ethernet port, RJ45 connector. It can be used to access the network.         |
| USB 2.0        | 2 x USB 2.0 ports, dual layer Type-A connector, each channel supports up to 480Mbps transmission rate. |
| USB 3.0        | 2 x USB 3.0 ports, dual layer Type-A connector, each channel supports up to 5Gbps transmission rate.   |
| Audio          | 1 x 3.5mm audio jack, stereo audio output                                                              |
| Speaker        | 1 x PA output, built-in a 4Ω 5W speaker.                                                               |
| Power          | 1 x DC Jack port, support 12V power input.                                                             |

| Side I/O     |                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------|
| SD Card Slot | 1 x Micro SD card slot, which is used to install Micro SD card. It supports booting the OS from SD card. |

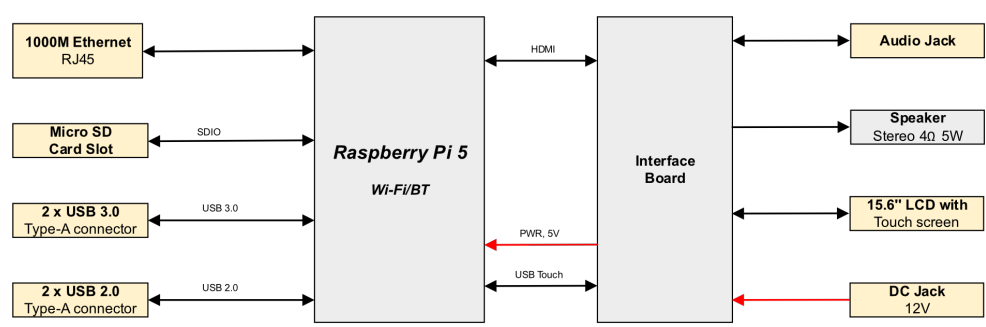
| Buttons and Indicators       |                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| PWR                          | 1 x Red power indicator, using to check the status of device power-on and power-off.                                 |
| PWR/ACT                      | 1 x Power/System status indicator, red and green, using to view the status of device power-up and system read/write. |
| Brightness Adjustment Button | 2 x Brightness adjustment buttons for increasing and decreasing the brightness.                                      |
| Volume Adjustment Button     | 2 x Volume adjustment buttons for increasing and decreasing the volume.                                              |
| Mute Button                  | 1 x Mute button for mute and unmute audio.                                                                           |
| ON/OFF Button                | 1 x power button, which is used to turn on and turn off the device.                                                  |

| LCD                   |                                       |
|-----------------------|---------------------------------------|
| Type                  | 15.6" TFT                             |
| Resolution            | 1920 x 1080                           |
| Color Number          | 16.7M                                 |
| Active Area           | 344.16mm (H) x 193.59mm (V)           |
| Backlight             | LED                                   |
| Luminance             | 450cd/m <sup>2</sup>                  |
| Contrast Ratio        | 1000:1                                |
| Response Time         | 20ms                                  |
| Viewing Angle (CR≥10) | 89° (L) / 89° (R) / 89° (U) / 89° (D) |

| Touch Screen         |                         |
|----------------------|-------------------------|
| Type                 | Capacitive Touch Screen |
| multi-touch          | Up to 5 points          |
| Communication Method | USB                     |
| Transmittance        | ≥85%                    |

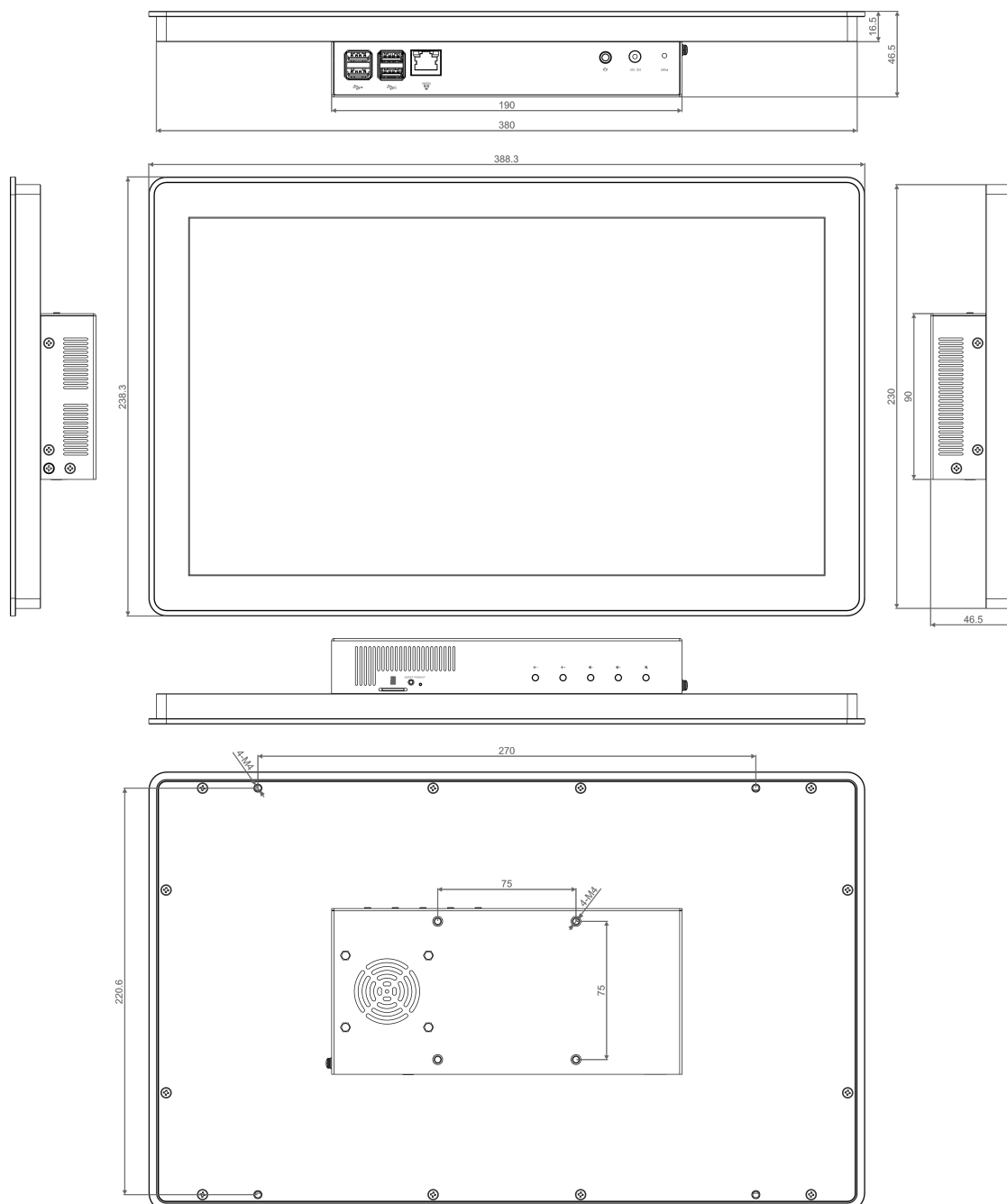
|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| Touch Screen               |                                                       |
| Surface Hardness           | ≥6H                                                   |
| Electrical Characteristics |                                                       |
| Input Voltage              | 12V DC (±10%)                                         |
| Power Consumption          | 35W (Max)                                             |
| Mechanical Characteristics |                                                       |
| Dimensions                 | 388.3mm x 238.3mm x 46.5mm (WxDxH)                    |
| Weight                     | About 2.4kg                                           |
| Installation               | Embedded front installation and VESA bracket mounting |
| Wireless                   |                                                       |
| Wi-Fi                      | Dual-band 802.11ac Wi-Fi                              |
| Bluetooth                  | Bluetooth 5.0 / Bluetooth Low Energy (BLE)            |
| Environmental              |                                                       |
| Operating Temperature      | -20°C ~ 50°C                                          |
| Storage Temperature        | -25°C ~ 60°C                                          |
| Ambient humidity           | 5% ~ 95% (non-condensing)                             |

## System Diagram

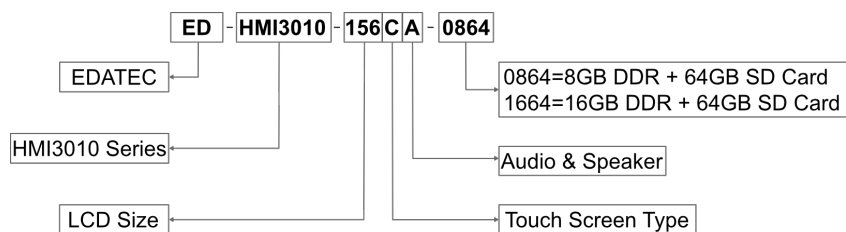


## Dimensions

Unit: mm



## Ordering Code



### Example

P/N: **ED-HMI3010-156CA-0864**

Configuration: 15.6-inch Industrial HMI Based on Raspberry Pi 5, with 8GB DDR, 64GB SD card, Audio & Speaker and ED-Pi5PCOOLER.

## Packing List

- 1 x ED-HMI3010-156C Unit

- 1 x Mounting Kit (including 4 x buckles, 4xM4\*10 screws and 4xM4\*16 screws)