

MDC-10710P

10.1-inch Android Industrial Panel PC



Features

- ◆ 10.1-inch capacitive touch panel PC
- ◆ RockChip RK3568 processor, quad-core 64-bit Cortex-A55, up to 2.0 GHz
- ◆ Android 11
- ◆ 2 GB LPDDR4, 4 GB/8 GB optional
- ◆ 16 GB eMMC, 32/64 GB/256 GB optional
- ◆ USB 2.0, RS232, RS485, dual Gigabit Ethernet ports, 4G optional, Wi-Fi, BT, CAN

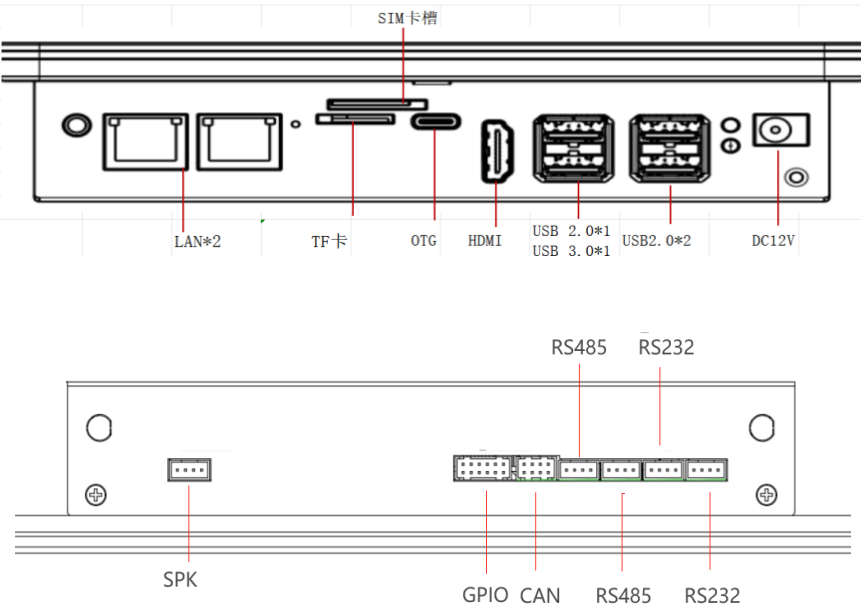


Product Specifications

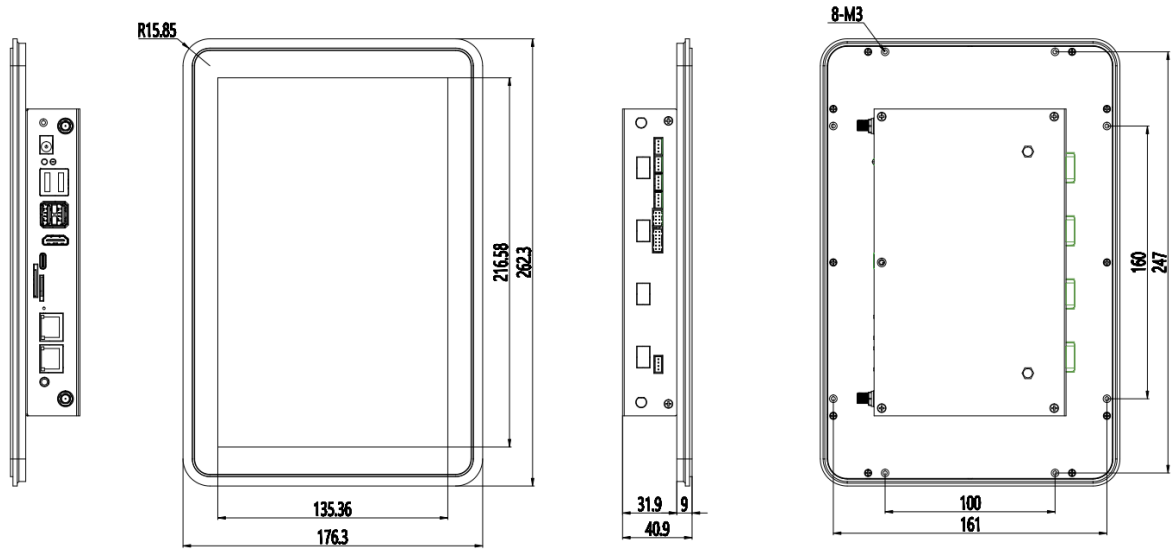
|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| CPU Processor    | RK3568<br>Quad-core 64-bitCortex-A55, up to 2.0 GHz<br>NPU 1.0 TOPS     |
| Configuration    | 2 GB LPDDR4, 4 GB/8 GB optional<br>16 GB eMMC, 32/64 GB/256 GB optional |
| Operating System | Android 11/Linux                                                        |
| Dimensions       | 262.3 mm x 176.3 mm x 40.9 mm                                           |
| Brightness       | 300 cd/m²                                                               |
| Resolution       | 800 x 1280                                                              |
| Viewing Angle    | Full viewing angle                                                      |
| Serial Port      | 2 x RS232<br>2 x RS485                                                  |
| USB Interface    | USB 2.0 Type-A x3<br>USB 3.0 Type-A x1<br>USB OTG Type-C x1             |
| GPIO             | 12 x GPIO (including SPI, IIC, ADC), 2 x CAN                            |
| Audio            | 1 x mono MIC / stereo HP, 1 x stereo SPK                                |
| Wired Network    | 2 x RJ45, 10M/1000Mbps adaptive Ethernet ports                          |
| Wireless Network | 2.4 GHz + 5 GHz IEEE 802.11 a/b/g/n/ac 1T1R                             |
| Bluetooth        | BT4.0                                                                   |
| SIM Card Slot    | 1 x SIM card slot                                                       |
| TF Card Slot     | 1 x TF card slot                                                        |

|                 |                                                                                 |
|-----------------|---------------------------------------------------------------------------------|
| Power Connector | DC 12 V power input with reverse-polarity protection and overcurrent protection |
| Button Openings | Recovery button & Reset button                                                  |

Interface View



Dimensions (mm)



Ordering Information

Product Selection

| Model          | Configuration        | Screen Brightness     | Interfaces                                     |
|----------------|----------------------|-----------------------|------------------------------------------------|
| MDC-10710P-L01 | LPDDR4 2GB EMMC 16GB | 300 cd/m <sup>2</sup> | RS232 x2, RS485 x2, CAN x2, USB x4, USB OTG x1 |

Optional Accessories

| Type                   | Model                          | Description         |
|------------------------|--------------------------------|---------------------|
| 4GModule               | EC200A-CN                      | Cat 4, mini PCIe    |
| 4GModule               | EC200N-CN                      | Cat 1, mini PCIe    |
| Adapter                | ChinaStandard                  | 12 V / 3 A          |
| External Wi-Fi Antenna | 2.4 GHz magnetic-mount antenna | 3 m extension cable |

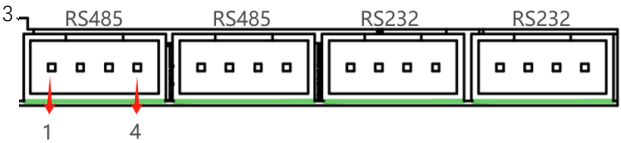
Service Hotline 400 602 5060 <http://www.rockemb.com>  
RocktechProduct upgrades and updates are reserved. Specifications are subject to change without prior notice.

|                     |                           |                     |
|---------------------|---------------------------|---------------------|
| External 4G Antenna | 4G magnetic-mount antenna | 3 m extension cable |
|---------------------|---------------------------|---------------------|

### Interface Definition

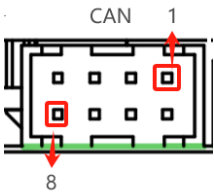
#### 1、Serial Port (RS232/485)

2、



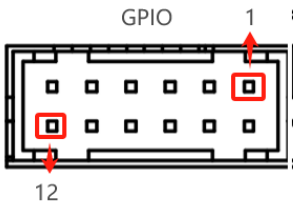
| Pin | Signal |
|-----|--------|
| 1   | VCC    |
| 2   | TXD/B  |
| 3   | RXD/A  |
| 4   | GND    |

#### 2. CAN



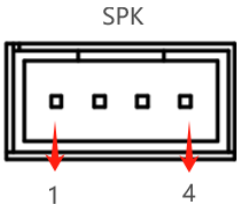
| Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|
| 1   | VCC    | 5   | CAN1-L |
| 2   | VCC    | 6   | CAN2-L |
| 3   | CAN1-H | 7   | GND    |
| 4   | CAN2_H | 8   | GND    |

#### 3. GPIO



| Pin | Signal | Pin | Signal |
|-----|--------|-----|--------|
| 1   | VCC    | 7   | TNT    |
| 2   | VCC    | 8   | CS     |
| 3   | SCL    | 9   | RST    |
| 4   | MISO   | 10  | CLK    |
| 5   | SDA    | 11  | GND    |
| 6   | MOSI   | 12  | GND    |

#### 4. SPK



| Pin | Signal |
|-----|--------|
| 1   | PR     |
| 2   | NR     |
| 3   | NL     |
| 4   | PL     |

