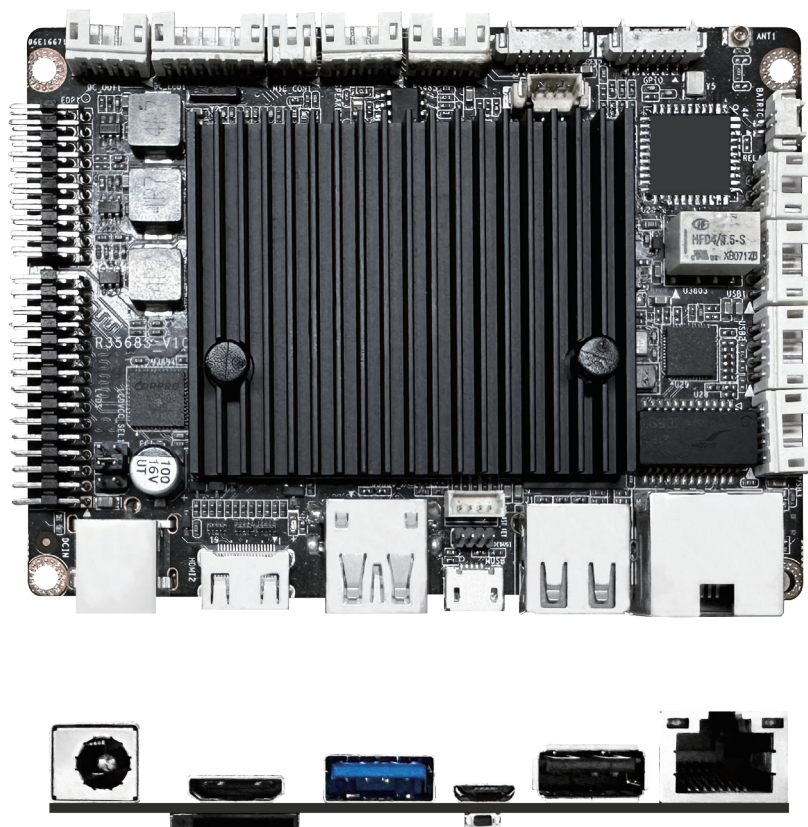


# R3568S-V10 Motherboard

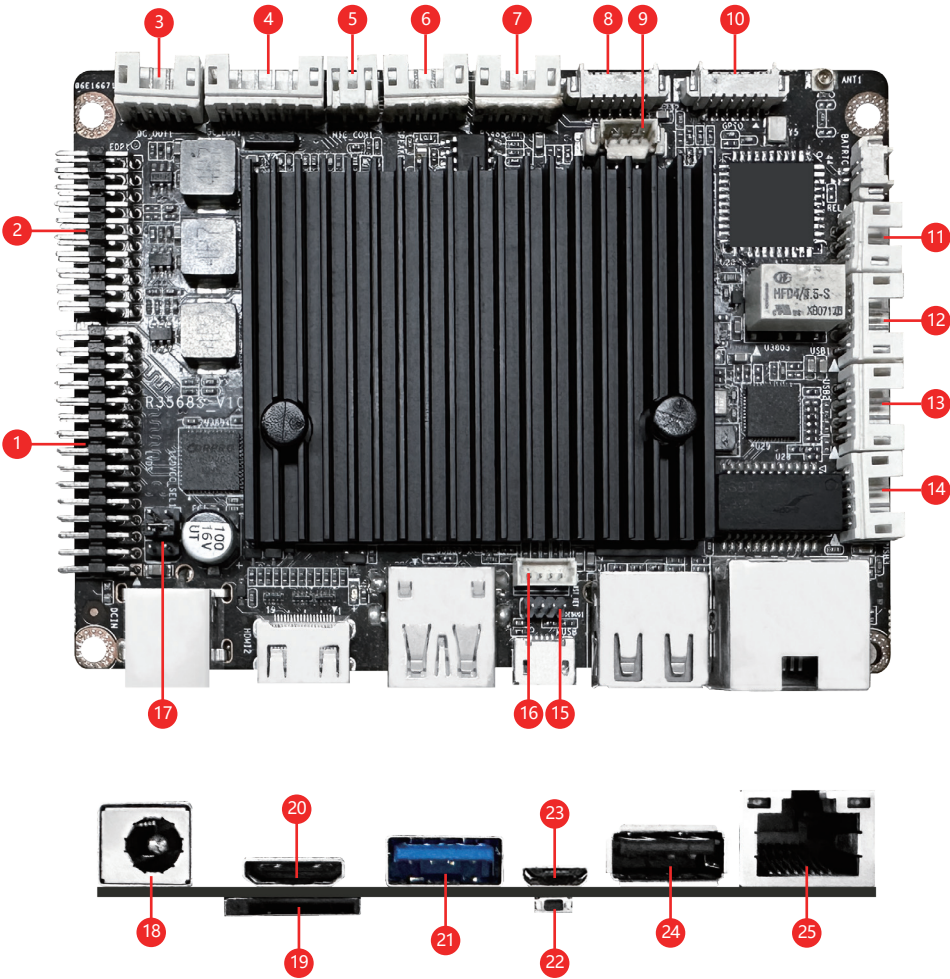
## Product characteristics:

- RK3568 CPU
- Support 1\*LAN (Realtek 8211E 1Gbps/100Mbps/10Mbps Ethernet Controller)
- Support 1\*LVDS/1\*EDP/1\*HDMI Display Output



# R3568S-V10 Motherboard Specifications

|                         |                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>             | 100mm*73mm                                                                                                                                                                                                                                    |
| <b>CPU</b>              | RK3568 CPU                                                                                                                                                                                                                                    |
| <b>RAM</b>              | DDR 2GB                                                                                                                                                                                                                                       |
| <b>Emmc</b>             | 32GB                                                                                                                                                                                                                                          |
| <b>Internal I/O</b>     | 1*LVDS Pin<br>1*EDP Pin<br>1*DC_OUT Pin<br>1*BL_LCD Pin<br>1*MIC_CON Pin<br>1*SPEAKER Pin<br>1*RS485 Pin<br>2*RS232 Pin<br>1*UART Pin<br>1*GPIO Pin<br>1*RELAY Pin<br>3*USB1-3 Pin<br>1*DEBUG Pin<br>1*PWR_RST_KEY Pin<br>1*LCDVCC_SEL Jumper |
| <b>Rear I/O</b>         | 1*DC 12V/3A interface<br>1*MINI HDMI interface<br>1*USB3.0 interface<br>1*MIRC USB interface<br>1*USB2.0 interface<br>1*LAN interface                                                                                                         |
| <b>LAN</b>              | 1*Realtek 8211E 1Gbps/100Mbps/10Mbps Ethernet Controller                                                                                                                                                                                      |
| <b>WIFI/Buletooth</b>   | AP6256 2.4G/5G                                                                                                                                                                                                                                |
| <b>Expansion slot</b>   | TF Card slots                                                                                                                                                                                                                                 |
| <b>Operating System</b> | Android 11                                                                                                                                                                                                                                    |



|    |                     |
|----|---------------------|
| 1  | LVDS Pin            |
| 2  | EDP Pin             |
| 3  | DC_OUT Pin          |
| 4  | BL_LCD Pin          |
| 5  | MIC_CON Pin         |
| 6  | SPEAKER Pin         |
| 7  | RS485 Pin           |
| 8  | RS232 Pin           |
| 9  | UART Pin            |
| 10 | GPIO Pin            |
| 11 | RELAY Pin           |
| 12 | USB1 Pin            |
| 13 | USB2 Pin            |
| 14 | USB3 Pin            |
| 15 | DEBUG Pin           |
| 16 | PWR_RST_KEY Pin     |
| 17 | LCDVCC_SEL Jumper   |
| 18 | DC 12V/3A interface |
| 19 | TF Card slots       |
| 20 | MINI HDMI interface |
| 21 | USB3.0 interface    |
| 22 | SW button           |
| 23 | MIRC USB interface  |
| 24 | USB2.0 interface    |
| 25 | LAN interface       |

# R3568S-V10主板定义

## (1) LVDS排针

| Location | Pin | Definition | Pin | Definition |
|----------|-----|------------|-----|------------|
| LVDS     | 1   | POWER      | 2   | POWER      |
|          | 3   | POWER      | 4   | GND        |
|          | 5   | GND        | 6   | GND        |
|          | 7   | D1TX0-     | 8   | D1TX0+     |
|          | 9   | D1TX1-     | 10  | D1TX1+     |
|          | 11  | D1TX2-     | 12  | D1TX2+     |
|          | 13  | GND        | 14  | GND        |
|          | 15  | D1CLKN     | 16  | D1CLKP     |
|          | 17  | D1TX3-     | 18  | D1TX3+     |
|          | 19  | D2TX0-     | 20  | D2TX0+     |
|          | 21  | D2TX1-     | 22  | D2TX1+     |
|          | 23  | D2TX2-     | 24  | D2TX1+     |
|          | 25  | GND        | 26  | GND        |
|          | 27  | D2CLKN     | 28  | D2CLKP     |
|          | 29  | D2TX3-     | 30  | D2TX3+     |

## (2) EDP排针

| Location | Pin | Definition | Pin | Definition |
|----------|-----|------------|-----|------------|
| EDP      | 1   | VCC        | 2   | VCC        |
|          | 3   | GND        | 4   | GND        |
|          | 5   | TX0-       | 6   | TX0+       |
|          | 7   | TX1-       | 8   | TX1+       |
|          | 9   | TX2-       | 10  | TX2+       |
|          | 11  | TX3-       | 12  | TX3+       |
|          | 13  | GND        | 14  | GND        |
|          | 15  | AUX-       | 16  | AUX+       |
|          | 17  | GND        | 18  | GND        |
|          | 19  | NC         | 20  | GND        |

## (3) DC\_OUT排针

| Location | Pin | Definition |
|----------|-----|------------|
| DC_OUT   | 1   | 12V        |
|          | 2   | 12V        |
|          | 3   | GND        |
|          | 4   | GND        |

## (4) BL\_LCD排针

| Location | Pin | Definition |
|----------|-----|------------|
| BL_LCD   | 1   | GND        |
|          | 2   | GND        |
|          | 3   | LCD_PWM    |
|          | 4   | LCD_EN     |
|          | 5   | 12V        |
|          | 6   | 12V        |

## (5) MIC\_CON排针

| Location | Pin | Definition |
|----------|-----|------------|
| MIC_CON  | 1   | MIC+       |
|          | 3   | MIC-       |

## (6) SPEAKER排针

| Location | Pin | Definition |
|----------|-----|------------|
| SPEAKER  | 1   | LP         |
|          | 2   | LN         |
|          | 3   | RN         |
|          | 4   | RP         |

## (7) RS485排针

| Location | Pin | Definition |
|----------|-----|------------|
| RS485    | 1   | 5V         |
|          | 2   | RS485B     |
|          | 3   | RS485A     |
|          | 4   | GND        |

## (8) RS232排针

| Location | Pin | Definition     |
|----------|-----|----------------|
| RS232    | 1   | VCC5V0_SYS     |
|          | 2   | UART3_RS232_TX |
|          | 3   | UART3_RS232_RX |
|          | 4   | UART4_RS232_TX |
|          | 5   | UART4_RS232_RX |
|          | 6   | GND            |

## (9) UART排针

| Location | Pin | Definition |
|----------|-----|------------|
| UART     | 1   | 5V         |
|          | 2   | UART_TX    |
|          | 3   | UART_RX    |
|          | 4   | GND        |

## (12/13/14) USB1-3排针

| Location | Pin | Definition |
|----------|-----|------------|
| USB      | 1   | VCC_5V     |
|          | 2   | HOST_DM    |
|          | 3   | HOST_DP    |
|          | 4   | GND        |