



# IB3-708

## ARM EMBEDDED MOTHERBOARD



Rockchip®  
RK3576 processor



1 x HDMI, 1 x LVDS, 1 x eDP  
Up to 3840 x 2160 @60 Hz



Onboard Wi-Fi/BT module



3.5inch form-factor  
146 mm x 102 mm (5.75" x 4.02")

### CPU

|                  |                                 |
|------------------|---------------------------------|
| CPU              | Rockchip® RK3576 processor      |
| Processing Units | 4 x Cortex-A72 & 4 x Cortex-A53 |
| NPU              | 6 TOPS RKNN                     |
| TDP              | 6 W                             |

### Network

|                    |                                       |
|--------------------|---------------------------------------|
| Network Controller | 2 x Realtek RTL8211F Gigabit Ethernet |
| Wi-Fi/BT           | Onboard Wi-Fi/BT module               |
| Cellular Network   | NA                                    |

### System

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| GPU                   | ARM Mali-G52 MC3                                                  |
| Graphic Engine        | OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1                     |
| Multi-Media           | 8K30 H.264/H.265/VP9/AV2/AVS2 Decoder<br>4K60 H.264/H.265 Encoder |
| System Memory         | 4 GB, Onboard LPDDR4/LPDDR4x                                      |
| Storage               | 64 GB, Onboard eMMC<br>1 x TF Card Reader                         |
| Watchdog Timer        | Yes                                                               |
| Auto Power On         | Yes                                                               |
| RTC                   | Set up independently every day, a week as a cycle                 |
| Power Requirement     | DC-IN, 12 V                                                       |
| Dimensions            | 146 mm x 102 mm (5.75" x 4.02")                                   |
| Operating system      | Android 14, Debian 12                                             |
| Operating Temperature | 0°C ~ 60°C (32°F~104°F) @0.7m/s Air Flow                          |
| Storage Temperature   | -20°C ~75°C (-4°F~167°F)                                          |
| Humidity              | 95% @ 60°C (non-condensing)                                       |

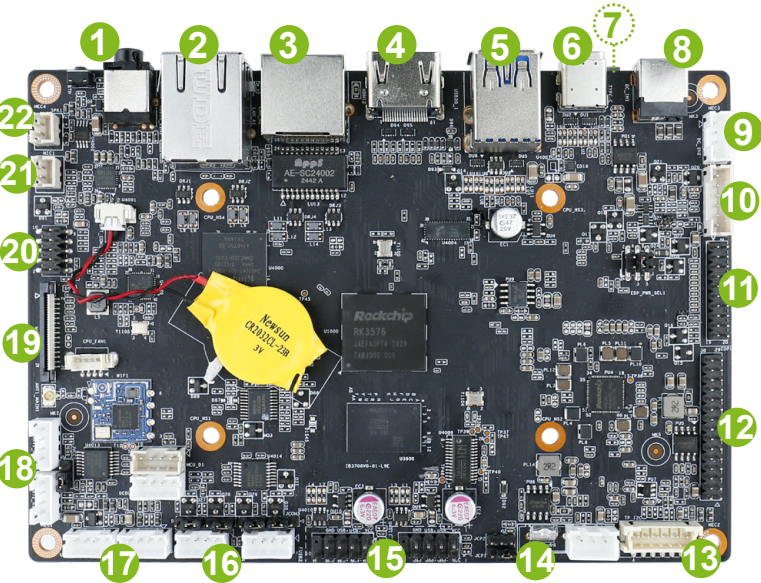
### Rear I/O

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| USB                | 2 x USB3.2 Gen1<br>1 x USB Type-C3.2 Gen1 (OTG, Max.3840 x 2160 @120 Hz) |
| Display            | 1 x HDMI (Max.3840 x 2160 @120 Hz)                                       |
| Audio              | 1 x 2-IN-1 Headset (AUDIO-OUT & MIC-IN)                                  |
| Ethernet Interface | 2 x RJ45                                                                 |
| Button             | 1 x Power on, 1 x Recovery                                               |

### Internal I/O

|             |                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------|
| USB         | 4 x USB2.0, signal by 2 x 2 x 5pin header                                                                                   |
| Display     | 2 x 15pin dual channel 24bit LVDS(Max. 1920 x 1200@24 Hz)<br>2 x 10pin eDP(Max.1920 x 1080 @60Hz)                           |
| Camera      | 1 x MIPI-CSI jack                                                                                                           |
| Serial port | 2 x RS232, signal by 2 x 4pin header,<br>2 x RS485, signal by 2 x 4pin header,<br>2 x TTL/RS232, signal by 2 x 4pin header, |
| IO          | 1 x 8pin GPIO,                                                                                                              |
| Audio       | 1 x 2pin SPK, 1 x 2pin MIC                                                                                                  |
| Others      | 1 x 7pin LED/IR, 1 x TP_I2C,                                                                                                |

Dimensions and Drawing



| No. | Dimensions    | No. | Dimensions |
|-----|---------------|-----|------------|
| 1   | HEADSET       | 19  | MIPI-CSI   |
| 2   | RJ45          | 20  | GPIO       |
| 3   | RJ45          | 21  | MIC        |
| 4   | HDMI          | 22  | AUDIO      |
| 5   | 2*USB3.2 GEN1 |     |            |
| 6   | USB TYPE-C    |     |            |
| 7   | TF CARD       |     |            |
| 8   | DC-IN         |     |            |
| 9   | DC-IN         |     |            |
| 10  | LVDS_BL       |     |            |
| 11  | EDP           |     |            |
| 12  | LVDS          |     |            |
| 13  | TP_I2C        |     |            |
| 14  | IR/LED        |     |            |
| 15  | 2*USB2.0      |     |            |
| 16  | 2*RS232       |     |            |
| 17  | 2*RS485       |     |            |
| 18  | 2*RS232/TTL   |     |            |

Order information

|         |                                                                                                                                                                                                                 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IB3-708 | CPU: Rockchip RK3576 processor<br>RAM: 4 GB, Onboard LPDDR4<br>Storage: 32 GB, Onboard eMMC<br>Wi-Fi/BT: Onboard Wi-Fi/BT module (Wi-Fi: Wi-Fi 5 2.4GHz/5GHz, BT: Bluetooth 5.2)<br>Operation System: Android14 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Optional items

|    |   |
|----|---|
| NA | - |
|----|---|