



# 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

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

### Network

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

### System

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

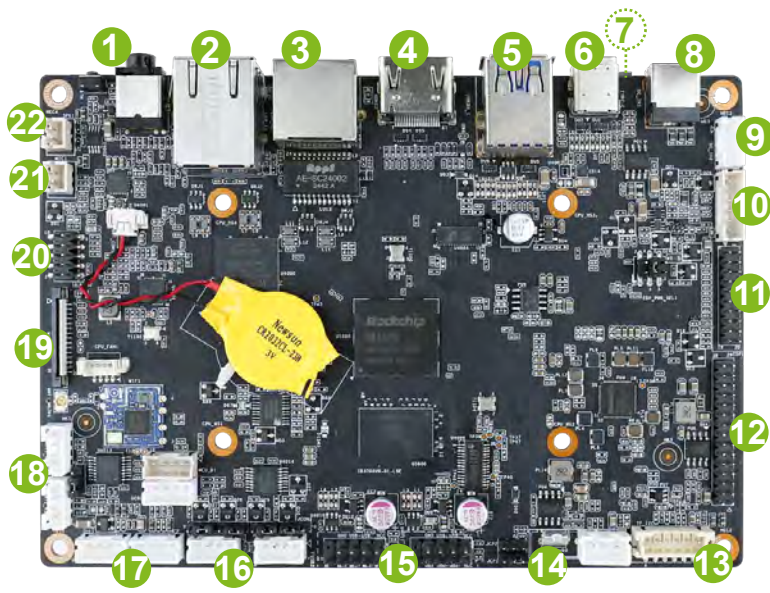
### Rear I/O

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

### Internal I/O

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



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