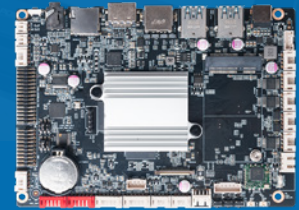




# IBC-386

## 3.5 INCH ARM MOTHERBOARD



Rockchip®  
RK3399 processor



1 x HDMI (3840 x 2160 @60 Hz)  
1 x LVDS (1920 x 1200 @60 Hz)  
1 x eDP (3840 x 2160 @60Hz)



Onboard Wi-Fi/BT module  
Support 3G/4G module



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

### CPU

<b>CPU</b>	Rockchip® RK3399
<b>Frequency</b>	1.80 GHz
<b>Processing Units</b>	2 Cores Cortex-A72 & 4 Cores Cortex-A53
<b>TDP</b>	6 W

### System

<b>GPU</b>	Mali-T860MP4
<b>Graphic Engine</b>	OpenGL ES1.1/2.0/3.0/3.1, OpenCL, Support AFBC (ARM Frame Buffer Compression)
<b>Multi-Media</b>	4K VP9 decoders 4K 10bits H.265 video decoders 1080P VC-1, MPEG-1/2/4, VP8 video decoders
<b>System Memory</b>	2 GB, Onboard LPDDR4-2133 MHz
<b>Storage</b>	16 GB, Onboard eMMC (Optional: 32 GB/64 GB) 1 x TF Card Reader
<b>Watchdog Timer</b>	NA
<b>Auto Power On</b>	Yes
<b>RTC</b>	Set up independently every day, a week as a cycle
<b>Remo on</b>	NA
<b>Power Requirement</b>	DC-IN, 12 V/2.08 A
<b>Dimensions</b>	146 mm x 102 mm (5.75" x 4.02")
<b>Fanless</b>	Yes
<b>Operating system</b>	Android 7.1/Android 11
<b>Operating Temperature</b>	0°C ~ 60°C (32°F~104°F) @0.7m/s Air Flow
<b>Humidity</b>	95% @ 40°C (non-condensing)

### Network

<b>Network Controller</b>	1 x Pef7071 PHY
<b>Wi-Fi/BT</b>	Onboard Wi-Fi/BT module
<b>Mobile Network</b>	1 x Full-size Mini-PCIe for 3G/4G 1 x SIM Slot

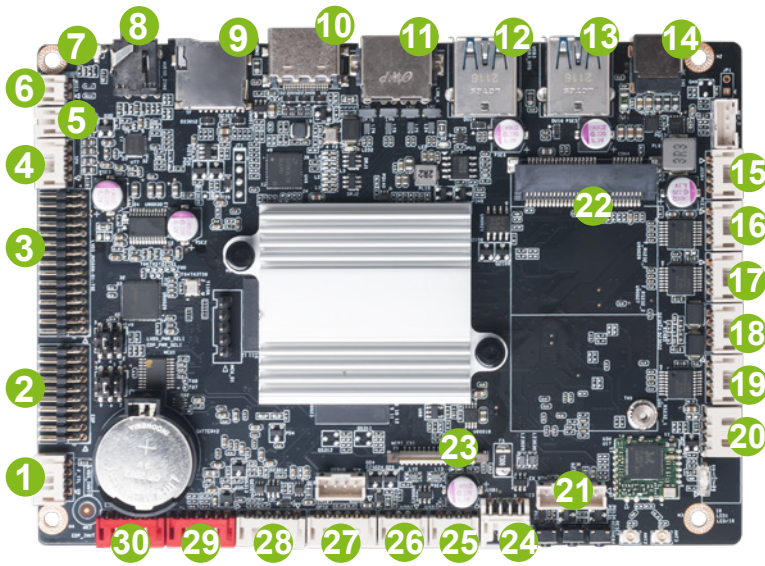
### Rear I/O

<b>USB</b>	1 x USB3.2 Gen1 OTG, 1 x USB3.2 Gen1,
<b>Display</b>	1 x HDMI (Max.3840 x 2160 @60 Hz)
<b>Audio</b>	1 x 2-IN-1 Headset (AUDIO-OUT & MIC-IN)
<b>Ethernet Interface</b>	1 x RJ45
<b>Button</b>	1 x Power on, 1 x Recovery, 1 x Reset

### Internal I/O

<b>USB</b>	3 x USB2.0, signal by 3 x 4pin USB header, 2 x USB2.0, signal by 1 x 8pin USB header
<b>Display</b>	1 x 20pin eDP 1 x 30pin dual channel 24bit LVDS (Max. 1920 x 1200@24 Hz)
<b>Camera</b>	1 x MIPI-CSI jack
<b>Serial port</b>	3 x 4pin RS232 header, 1 x 4pin RS485 header 1 x 4pin TTL
<b>GPIO</b>	1 x 6pin GPIO
<b>Audio</b>	1 x 2pin MIC-IN 1 x 4pin SPK (5W), 1 x 2pin SPK(10W)
<b>Others</b>	1 x 6pin TP_I2C 1 x 6pin EX_BUTTON 1 x 6pin LVDS_BL, 1 x 6pin eDP_BL

## Dimensions and Drawing



No.	Dimensions	No.	Dimensions
1	TTL	20	IR
2	eDP	21	EX_BUTTON
3	LVDS	22	MINI-PCIE
4	SPK (8 W)	23	MIPI-CSI
5	SPK (16 W)	24	2*USB2.0
6	MIC-IN	25	USB2.0
7	UBOOT	26	USB2.0
8	2-IN-1 HEADSET	27	GPIO
9	TF CARD	28	TP_I2C
10	HDMI	29	LVDS_BL
11	LAN	30	eDP_BL
12	USB3.2 GEN1 OTG		
13	USB3.2 GEN1		
14	DC-IN		
15	USB2.0		
16	RS232		
17	RS232		
18	RS485		
19	RS232		

## Order information

<b>IBC-386</b>	<p>CPU: Rockchip RK3399</p> <p>RAM: 2 GB, Onboard LPDDR4-2133 MHz</p> <p>Storage: 16 GB, Onboard eMMC</p> <p>Wi-Fi/BT: Onboard Wi-Fi/BT module (2.4GHz/5GHz)</p> <p>Operation System: Android 7.1</p>
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## Optional items

<b>Wi-Fi/BT module</b>	Quectel® EC25 4G
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