



IBC-381

3.5 INCH ARM MOTHERBOARD



Rockchip®
RK3328 processor



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



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

CPU	Rockchip® RK3328
Frequency	1.50 GHz
Processing Units	4 Cores
TDP	6 W

System

GPU	Mali-450MP2
Graphic Engine	OpenGL ES1.1/2.0
Multi-Media	4K VP9 decoders 4K 10bits H.265 decoders 1080P VC-1, MPEG-1/2/4, VP8 video decoders Support HDR10 ,HLG HDR
System Memory	2 GB, Onboard DDR3L-1333 MHz (Optional: 4 GB)
Storage	16 GB, Onboard eMMC (Optional: 32 GB/64 GB) 1 x TF Card reader
Watchdog Timer	NA
Auto Power On	Yes
RTC	Set up independently every day, a week as a cycle
Remo on	NA
Power Requirement	DC-IN, 12 V/2.08 A
Dimensions	146 mm x 102 mm (5.75" x 4.02")
Fanless	Yes
Operation system	Android 7.1
Operating Temperature	0°C ~ 60°C (32°F~140°F) @0.7m/s Air Flow
Humidity	95% @ 60°C (non-condensing)

Network

Network Controller	1 x Realtek RTL8211E PHY
Wi-Fi/BT	Onboard Wi-Fi/BT module
Mobile Network	1 x Full-size Mini-PCIe for 3G/4G 1 x SIM Slot

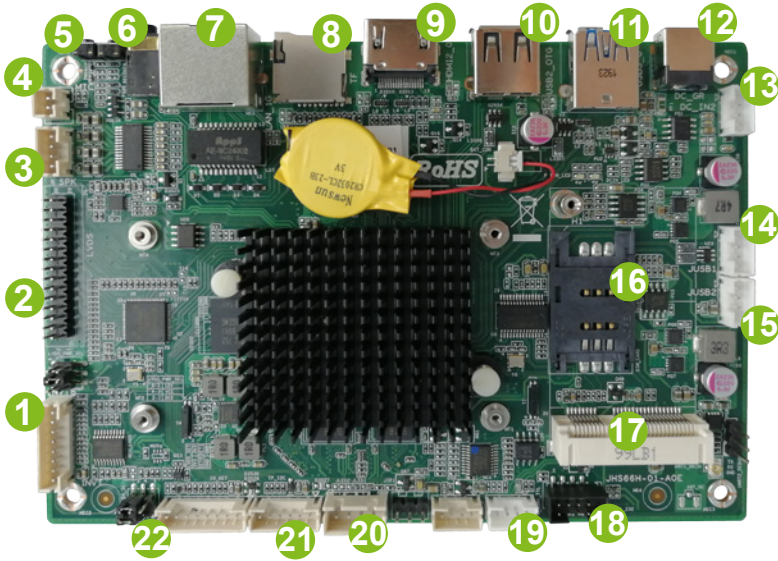
Rear I/O

USB	1 x USB3.2 Gen1, 1 x USB2.0 OTG,
Display	1 x HDMI (Max.3840 x 2160 @60 Hz)
Audio	1 x 2-IN-1 Headset (AUDIO-OUT & MIC-IN)
Ethernet Interface	1 x RJ45

Internal I/O

USB	2 x USB2.0, signal by 2 x 4pin USB header
Display	1 x 30pin dual channel 24bit LVDS (Max. 1920 x 1200 @60 Hz)
Serial port	1 x 9pin RS232, 1 x 4pin TTL
IO/Key	1 x 8pin IO/Key
Audio	1 x 2pin MIC, 1 x 4pin SPEAKER
Power	1 x 4pin DC_IN
Others	1 x 6pin TP_I2C 1 x 4pin LED 1 x 8pin INVERTER

Dimensions and Drawing



No.	Dimensions	No.	Dimensions
1	INVERTER	20	LED
2	LVDS	21	TP_I2C
3	SPEAKER	22	IO/KEY
4	MIC-IN		
5	PWR_BUTTON		
6	2-IN-1 HEADSET		
7	RJ45		
8	TF CARD		
9	HDMI		
10	USB2.0 OTG		
11	USB3.2 Gen1		
12	DC-IN		
13	DC-IN HEADER		
14	USB2.0		
15	USB2.0		
16	SIM SLOT		
17	MINI-PCIE		
18	RS232		
19	TTL		

Order information

IBC-381	<p>CPU: Rockchip RK3328</p> <p>RAM: 2GB, Onboard DDR4-2133 MHz</p> <p>Storage: 16 GB, Onboard eMMC</p> <p>Wi-Fi/BT: Onboard Wi-Fi/BT module (2.4 GHz/5 GHz)</p> <p>Operation System: Android 7.1</p>
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Optional items

3G/4G module	Quectel® EC25 4G
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