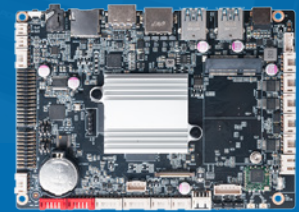




IBC-386

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

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

System

| | |
|------------------------------|-------------------------------------------------------------------------------------------------|
| GPU | Mali-T860MP4 |
| Graphic Engine | OpenGL ES1.1/2.0/3.0/3.1, OpenCL, Support AFBC (ARM Frame Buffer Compression) |
| Multi-Media | 4K VP9 decoders 4K 10bits H.265 video decoders 1080P VC-1, MPEG-1/2/4, VP8 video decoders |
| System Memory | 2 GB, Onboard LPDDR4-2133 MHz |
| 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 |
| Operating system | Android 7.1/Android 11 |
| Operating Temperature | 0°C ~ 60°C (32°F~104°F) @0.7m/s Air Flow |
| Humidity | 95% @ 40°C (non-condensing) |

Network

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

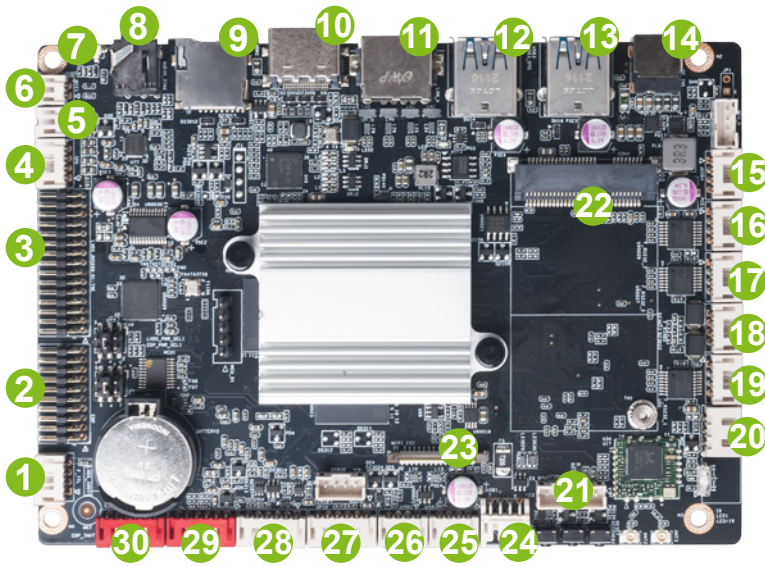
Rear I/O

| | |
|---------------------------|-----------------------------------------|
| USB | 1 x USB3.2 Gen1 OTG, 1 x USB3.2 Gen1, |
| 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 |
| Button | 1 x Power on, 1 x Recovery, 1 x Reset |

Internal I/O

| | |
|--------------------|-----------------------------------------------------------------------------------------|
| USB | 3 x USB2.0, signal by 3 x 4pin USB header, 2 x USB2.0, signal by 1 x 8pin USB header |
| Display | 1 x 20pin eDP 1 x 30pin dual channel 24bit LVDS (Max. 1920 x 1200@24 Hz) |
| Camera | 1 x MIPI-CSI jack |
| Serial port | 3 x 4pin RS232 header, 1 x 4pin RS485 header 1 x 4pin TTL |
| GPIO | 1 x 6pin GPIO |
| Audio | 1 x 2pin MIC-IN 1 x 4pin SPK (5W), 1 x 2pin SPK(10W) |
| Others | 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 (5 W) | 23 | MIPI-CSI |
| 5 | SPK (10 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

| | |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IBC-386 | <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> |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Optional items

| | |
|---------------------|------------------|
| 3G/4G module | Quectel® EC25 4G |
|---------------------|------------------|