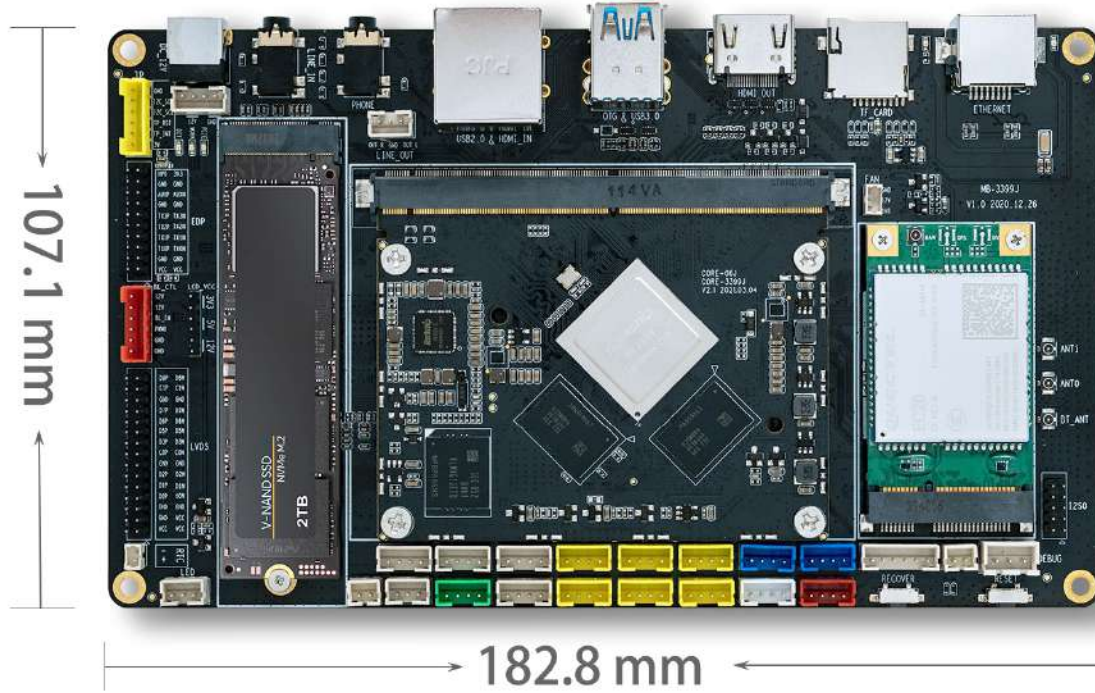


## Specification

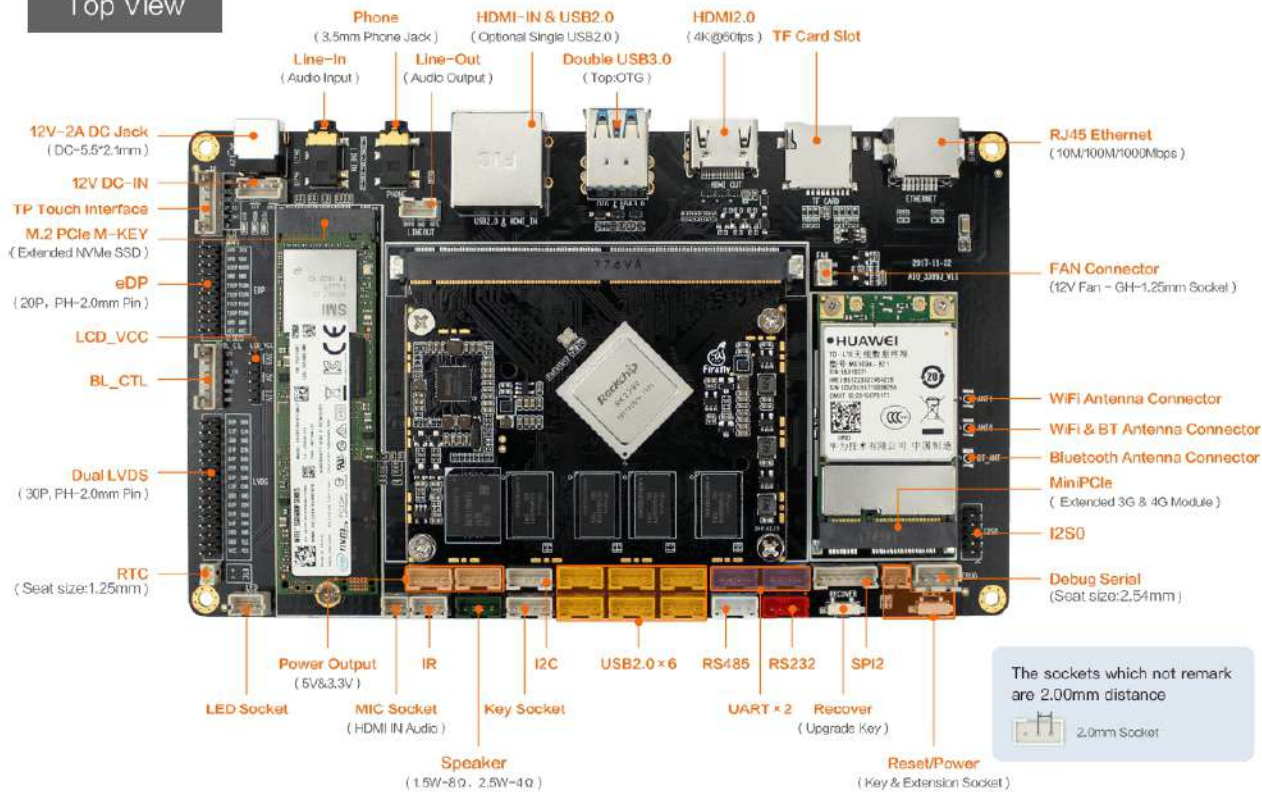
	Rockchip RK3399 ( 28nm HKMG Process ) , up to 1.8GHz Six-Core ARM 64-bit processor(2xCortex-A72 + 4xCortex-A53)
<b>CPU</b>	ARM Mali-T860 MP4 Quad-Core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenCL and DirectX 11, Support AFBC  Support 4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps 1080P multi-format video decoding (MVC, mpeg-1/2/4, VP8) 1080P video encoding, which supports h.264, VP8 format
<b>RAM</b>	Dual-Channel DDR3 ( 1GB/2GB/4GB Optional )
<b>Storage</b>	High-Speed eMMC 5.1 ( 8GB/16GB/32GB/128GB Optional ) Support MicroSD (TF) Card PCIe M.2 NGFF ( M-KEY ) , for extend NVMe SSD
<b>Wireless</b>	2.4GHz/5GHz Dual-band WiFi ( Support 802.11a/b/g/n/ac protocol, 2x2 MIMO ) Bluetooth 4.1 ( Support BLE )  3G/4G LTE (Mini-PCIe ) Module ( Optional ) Support WCDMA, EVDO, 4G full netcom
<b>Ethernet</b>	10/100/1000Mbps ( RJ45)
<b>Display</b>	Video Output Interface: 1 x HDMI 2.0, up to 4K@60fps , support HDCP 1.4/2.2 1 x HDMI-IN, support 1080P@60fps input  Screen Interface (Support dual display ) : 1 x Dual-Channel MIPI-DSI, up to 2560x1600@60fps 1 x Dual-Channel LVDS, support 1920x1200 (24bit) @60fps 1 x eDP 1.3 ( 4 lanes with 10.8Gbps )
<b>Audio</b>	1 x HDMI audio output 1 x MIC audio input 1 x Analog audio (via 3.5mm Combo Audio Jack for audio input and output) 1 x Line-in for audio input 1 x Line-out (socket) for audio output 1 x SPDIF interface for audio output 1 x Double -Speakers, (support left and right output, built-in double 4Ω/2.7W, 8Ω/1.6W PA ) 1 x I2S, supports 8 channels
<b>Camera</b>	2 x MIPI-CSI Camera interface, ( built-in Dual-ISP, Maximum 13Mpixel or dual 8Mpixel )
<b>PCIe</b>	1 x Mini PCIe, for LTE 4G 1 x PCIe M.2 (M-Key) , for extend NVMe SSD
<b>SIM</b>	1 x SIM Slot, for Mini-PCIe 4G LTE module
<b>USB</b>	1 x USB2.0 HOST, 2 x USB3.0 HOST, 6 x USB2.0 Socket
<b>Serial</b>	1 x RS232 , 2 x TTL Serial, 1 x RS485
<b>IR</b>	1 x IR Receiver, support remote control
<b>RTC</b>	1 x RTC, Onboard battery socket (supports rtc wake up)
<b>Key</b>	1 x Reset Key, 1 x Recover Key
<b>Interface</b>	SPI, I2C, ADC, GPIO, Key, and power input and output interface
<b>Power</b>	DC12V - 2A ( via DC 5.5*2.1mm Jack or 2.54mm Socket )
<b>OS</b>	Android 7.1, Android 6.0, Ubuntu 16.04, u-boot
<b>Programming</b>	Support C, C++, Kotlin, Java, Shell, Pyhon etc.
<b>Upgrade</b>	Support TF-Card upgrade, USB upgrade
<b>Size</b>	182.8mm x 107.1mm
<b>High Limit</b>	19mm (Top) , 2.5mm (Bottom)
<b>Screw Hole</b>	Φ 3mm
<b>PCB Parameters</b>	Motherboard (4-layer design), Core Board (8-layer design), 1.6mm (thickness), Immersion Gold Technology

## Size



# Interface

## Top View



## Bottom View

