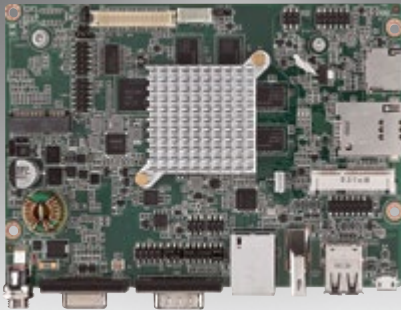


# RSB-4680

Rockchip RK3288 Cortex-A17  
3.5英寸单板电脑



- 搭载Rockchip ARM Cortex-A17 RK3288 四核 (1.6GHz)
- 支持板载2GB DDR3L 内存及 8GB eMMC
- 支持HDMI 3840x2160 (60Hz)、VGA 1920x1200 (60Hz) 支持双通道18/24/30位LVDS
- 支持 4K H.264/H.265 视频解码器
- 配备6个UART端口、6 USB2.0接口、1 个GbE接口、8个GPIO接口、1个SPI接口
- M.2支持WIFI/BT, mini-PCIe支持3G/ 4G
- 支持Linux和Android操作系统



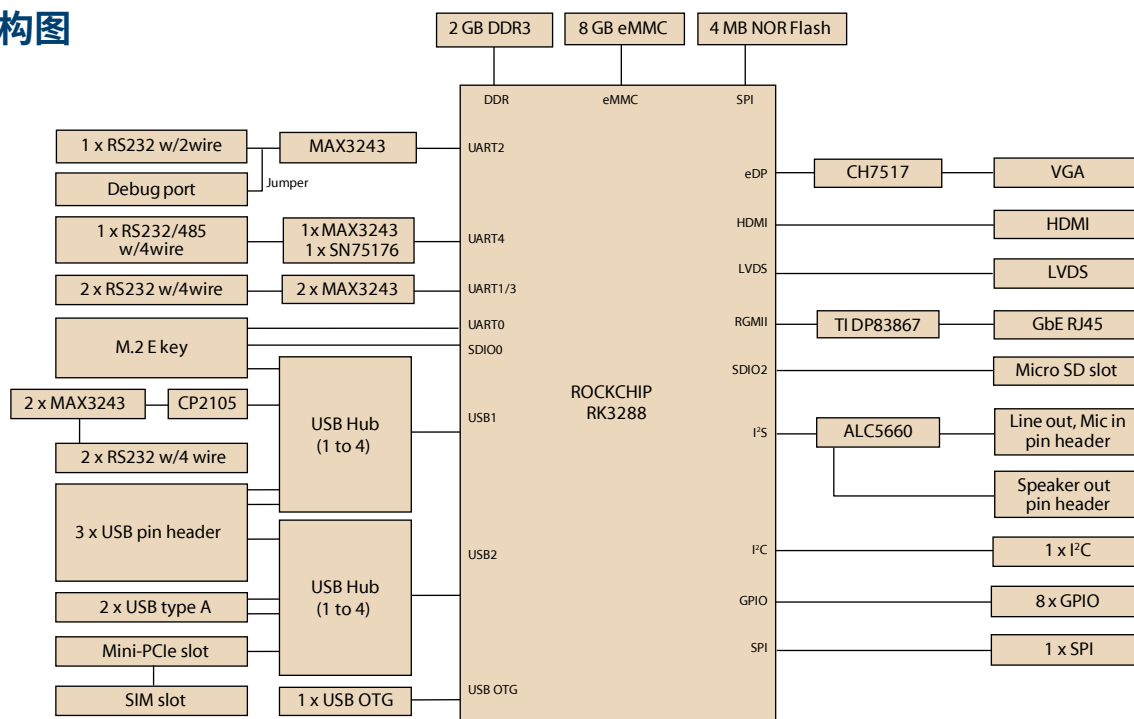
## 产品介绍

RSB-4680是一款搭载高性能Rockchip ARM Cortex-A17 RK3288处理器的RISC 3.5英寸单板电脑 (SBC)，支持HDMI 4K显示。同时提供丰富接口，例如6 USB2.0、6 UART、1 VGA、1 LVDS、1 GbE 及 8 GPIO。此外，RSB-4680提供Mini-PCIe、M.2以及SIM卡插槽，适用于集成Wi-Fi、蓝牙及3G/4G 模块。因此，它成为Kiosk、POS和自动贩卖机应用的理想解决方案。

## 规格

Form Factor		3.5" SBC
Processor	CPU	Rockchip Arm Cortex-A17 RK3288 Quad Core up to 1.6GHz
Memory	Technology	DDR3L 1333MHz
	Capacity	On-board DDR3L 2GB
	Flash	8GB of eMMC NAND Flash for OS and Advantech's boot loader 4MB of SPI NOR Flash
Graphics	LVDS	1 x 18/24/30-bit LVDS with 1920 x 1080 for dual channels at 60Hz
	HDMI	1 HDMI, up to 3840 x 2160 at 60 Hz
	VGA	1 VGA, up to 1920 x 1200 at 60Hz
	Graphics Engine	OpenGL ES 1.1/2.0/3.0, OpenCL 1.1, DirectX 11
	H/W Video Codec	Decoder: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC, HEVC/H.265 decoder, 4k@60FPS Encoder: H.264 (BP@level4.0, MP, HP@level4.0), MVC and VP8
Ethernet	Chipset	TI DP83867
	Speed	1 x 10/100/1000 Mbps
WatchDog Timer		Yes
I/O	SATA	-
	SATA Power	-
	USB	1 x USB OTG, 2 x USB Type A, and 3 x USB pin headers
	Audio	1 x Line out, 1 x Mic-in, 1 x Speaker out via a pin header
	SPDIF	-
	SDIO	-
	Serial Port	1 x 4-wire RS-232/485, DB9 1 x 2-wire RS-232/Debug port, pin header selected by jumper 4 x 4-wire RS-232, pin header
	SPI	1
	CAN	-
	GPIO	8 x GPIO via pin header (3.3V TTL level)
	I <sup>2</sup> C	1
	System Bus	-
	Touch	-
MIPI CSI	-	
Button	1 x Reset button, 1 x Power button via a pin header	
Expansion	Mini PCIe	1 x Mini PCIe slot
	SD Socket	1 x Micro SD slot
	SIM Slot	1 x SIM slot
	M.2 Socket	1 x M.2 2230 Key E slot
Power	Power Supply Voltage	12 V
	Power Type	DC-in
	Power Consumption	-
Environment	Operating Temperature	0 ~ 60 °C/-20 ~ 85 °C
	Operating Humidity	5 ~ 95% relative humidity, non-condensing
Mechanical	Dimensions (W x D)	146 x 102 mm
Operation System		Linux Debian 9 & Android 6.0.1/8.1
Certifications		CE/FCC Class B

### 架构图



### 订货信息

Part Number	CPU	Memory	Flash	HDMI	VGA	LVDS	LAN	Serial Port	SATA	USB	System Bus	SD	CAN Bus	Operating Temperature
RSB-4680CQ-XNA1E	Rockchip RK3288 Quad core, 1.6GHz	2 GB	8 GB	1	1	1	1	1 x 4-wire RS-232/485 1 x 2-wire RS-232/Debug port 4 x 4-wire RS-232	-	5 x USB Host 1 x USB OTG	-	1	-	0 ~ 60 °C
RSB-4680WQ-XNA1E	Rockchip RK3288K Quad core, 1.6GHz	2 GB	8 GB	1	1	1	1	1 x 4-wire RS-232/485 1 x 2-wire RS-232/Debug port 4 x 4-wire RS-232	-	5 x USB Host 1 x USB OTG	-	1	-	-20 ~ 85 °C

### 装箱单

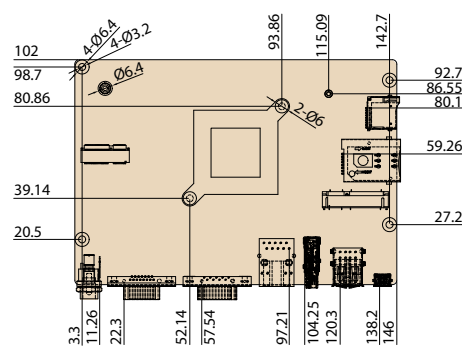
Part Number	Description
RSB-4680	RSB-4680 3.5" SBC

### 可选配件

Part Number	Description
96PSA-A60W12W6	ADP A/D 100-240V 60W 12V C14 LOCKABLE DC PLUG
1702002605	Power Cord 3P EU 10A 250V 183cm
1702031801	Power Cord 3P UK 10A 250V 183cm
1702002600	Power Cord UL 3P 10A 125V 183cm
1700009652	Power Cord CCC 3P 10A 250V 187cm
1700021565-01	Debug cable
EWM-W167M201E	WiFi BT4.0 Module RTL8723BS SDIO
1750007965-01	Antenna Cable R/P SMA (M) to MHF4, 300mm
1750008671-01	Dipole Ant.SMA/M-R 2.4/5G 2.5/4dBi BLK 109mm
968AD00081*	Quectel EC20CEFA Mini-PCIe 4G module for China
1750006264	Antenna cable SMA(F)/MHF 15cm
1750007990-01	Antenna 4G/LTE full band L=11 cm 50 Ohm
SQF-MSDM1-8G-21C	SQF MICRO SD C10 MLC 8G (-25 ~ 85 °C)
IDK-1107WR-40WVA1E	7" LED PANEL 2.5A/3A 250V 1.83cm400N with 4WR touch, 800 x 480 (G)
1700028571-01	LVDS cable for IDK-1107WR
1700028572-01	LCD backlight cable for IDK-1107WR

\* Please contact us to get suitable cellular module for your region.

### 架构图



### I/O 视图

