

# EPC-R4680

## Rockchip RK3288 Cortex-A17 ARM Based Box Computer



### Features

- Rockchip ARM Cortex-A17 RK3288 Quad core up to 1.6GHz
- Onboard 2GB DDR3L memory and 8GB eMMC
- Support 4K H.264/H.265 Video decoding, OpenVG1.1, OpenGL ES1.1/2.0/3.0, OpenCL1.1, DirectX11.
- Support HDMI 3840 x 2160 at 60Hz, VGA 1920 x 1200 at 60Hz
- 6 UART, 5 USB2.0, 1 USB OTG, 1GbE, 8GPIO
- Support M.2 slot for WIFI/BT module, Mini-PCIe slot for 4G module
- Support Linux and Android



### Introduction

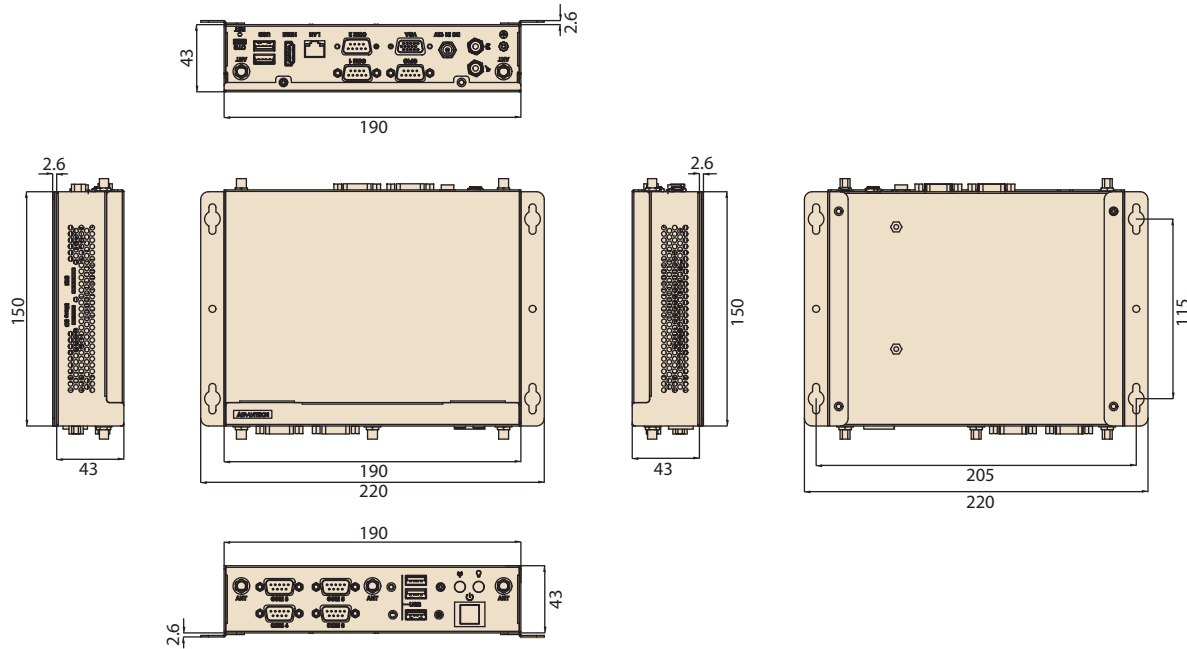
EPC-R4680 is an ARM based Box Computer powered by Rockchip ARM Cortex-A17 RK3288 Quad core high performance processor, which supports 4K display and 4Kx2K multi-format video decoding via HDMI. It also features M.2, Mini-PCIe and SIM card slots for WIFI, BT and 4G connectivity. EPC-R4680 also offers rich interfaces such as 6 USB2.0, 6 UART, 1 GbE and 8 GPIO. It is an ideal solution for Kiosk, Vending machine and Digital signage application.

### Specifications

Form Factor		ARM-based Box Computer
Processor	CPU	Rockchip ARM® Cortex® A17 RK3288 Quad-core, up to 1.6 GHz
Memory	Technology	DDR3L 1333MHz
	Capacity	On-board 2GB DDR3L
	Flash	8GB eMMC NAND Flash for OS and Advantech boot loader 4MB SPI NOR Flash
Graphics	HDMI	1 HDMI, 3840 x 2160 at 60Hz
	VGA	1 VGA, up to 1920 x 1200 at 60Hz
	H/W Video Codec	Encode: H.264 (BP@level4.0, MP, HP@level4.0), MVC and VP8 Decode: MPEG-1, MPEG-2, MPEG-4,H.263, H.264, AVS, VC-1, VP8, MVC, HEVC/H.265 decoder, 4k@60FPS
Ethernet	Chipset	TI DP83867
	Speed	1 10/100/1000 Mbps
RTC		Yes
WatchDog Timer		Yes
Expansion	SD socket	1 x Micro SD slot
	M.2	1 x M.2 2230 Key,E
	mini PCIe	1 x Full size mini PCIe slot (USB signal only)
	SIM	1 x SIM slot
	SATA	-
I/O	SATA Power	-
	USB	5 x USB Type A, 1 x USB OTG
	Audio	1 x line-out, 1 x mic-in
	SPDIF	-
	Serial Port	1 x 4-wire RS-232/485 1 x 2-wire RS-232/Debug port, pin header selected by jumper 4 x 4-wire RS-232
	SPI	1 x SPI by pin header
	CAN	-
	GPIO	8 x GPIO via D-SUB 9 (3.3V TTL level)
	I <sup>2</sup> C	1 x I <sup>2</sup> C by pin header
	System Bus	-
	Touch	-
	I/R	-
	LED	1 x Power LED, 1 x 4G LED
	Button	1 x Power button, 1 x Reset button
	Power	Power Supply Voltage
Power Type		DC-in
Power Consumption		TBD
Environment	Operational Temperature	0 ~ 55° C
	Operating Humidity	5% ~ 95%
Mechanical	Dimensions (W x D)	190 x 150 x 43 mm
Operating System		Android/Linux
Certifications		CCC/CE/FCC Class B

## Dimensions

Unit: mm



## Ordering Information

Part Number	CPU	Memory	Flash	HDMI	LAN	Serial Port	USB Host	SD	Operating Temperature
EPC-R4680CQ-XAA1E	Rockchip RK3288 Quad Core 1.6GHz	2GB	8GB	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 ~ 55 °C

## Packing List

Part Number	Description
EPC-R4680	EPC-R4680 Box computer

## Optional Accessories

Port Number	Description
96PSA-A36W12W7	ADP A/D 100-240V 36W 12V WO/PFC
170203183C	Power cord 3P Europe (WS-010+WS-083) 183 cm
170203180A	Power cord 3P UK 2.5A/3A 250 V 1.83 M
1700019146	Power Cord CCC 3P 10A 250V 183cm
EWM-W167M201E	802.11b/g/n (1R1T)+BT4.0 WLAN and BT combo module
1750008800-01	Antenna Cable R/P SMA (M) to MHF4, 100mm
1750008671-01	Dipole Ant.SMA/M-R 2.4/5G 2.5/4dBi BLK 109mm
968AD00081*	Qucetel 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)

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

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