

# EPC-R4710

## Rockchip RK3399 Cortex-A72 ARM Based Box Computer

Preliminary



### Features

- Rockchip RK3399 ARM Dual Cortex-A72 and Quad Cortex-A53 1.8 GHz
- Onboard 2GB LPDDR4 memory and 16GB eMMC
- Dual HDMI(4K 60fps + 1080P)
- Support 4K H.264/H.265 Video decoder
- 6 serial, 1 USB3.0, 4 USB2.0 , 1 USB OTG, 2 GbE, 1 SPI, 1 I2C, 5 GPIO
- M.2 for WIFI/BT support, mini-PCIe for 3G/4G support
- Support Linux and Android



### Introduction

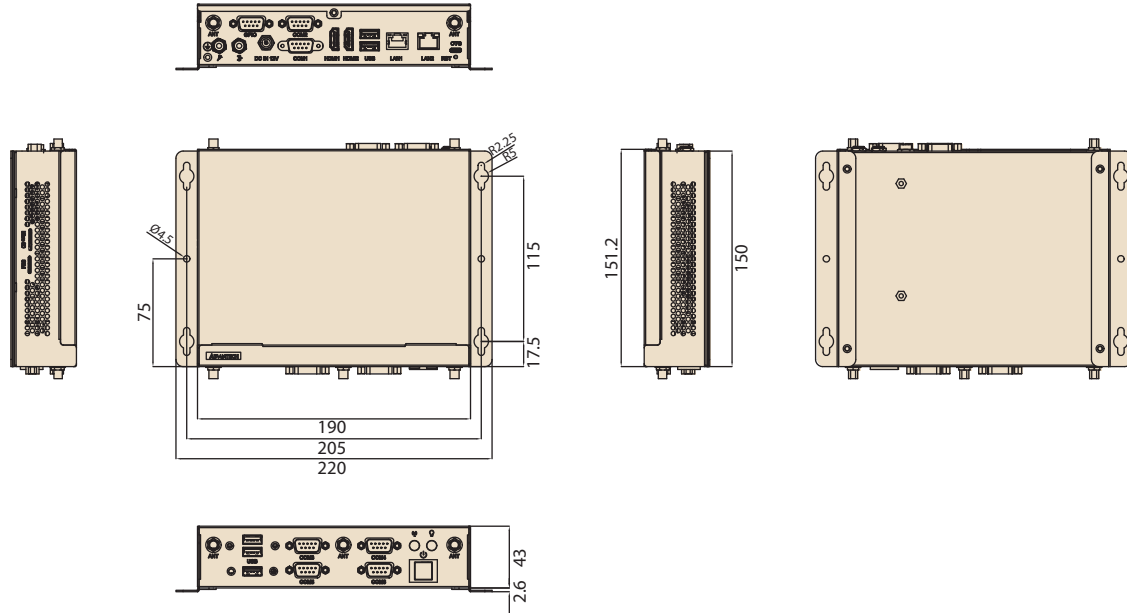
EPC-R4710 is an Arm based Box Computer powered by a high-performance Rockchip RK3399 ARM dual Cortex-A72 and quad Cortex-A53 high performance processor which supports 4K display from HDMI. It offers both rich display as dual HDMI and rich IO as dual GbE/6serials/6USB/5GPIO. EPC-R4710 also features Mini-PCIe, M.2, and SIM card slots for integrating Wi-Fi, Bluetooth, and 3G/4G modules. It is an ideal solution for Kiosk, POS, and Vending machine application.

### Specifications

Form Factor		ARM-based Box Computer	
Processor	CPU	Rockchip RK3399 ARM dual Cortex-A72 and quad Cortex-A53 1.8 GHz	
Memory	Technology	LPDDR4 1333MHz	
	Capacity	On-board LPDDR4 2GB	
	Flash	16GB of eMMC NAND Flash for OS and Advantech's boot loader	
Graphics	HDMI	2	
	eDP	1, max 2.7Gbps	
	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	RTL8211FSI	
	Speed	2 x 10/100/1000 Mbps	
RTC		Yes (Max timeout: 21s, Default timeout: 10s)	
WatchDog Timer		Yes	
Expansion	SD socket	1 x Micro SD slot	
	M.2	1 x M.2 2230 Key E slot, w/SIO*UART*PCIe*USB	
	mini PCIe	1 x Full size mini PCIe slot (USB signal only)	
	SIM	1 x SIM slot	
I/O	SATA	-	
	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 RS232/debug
			3 RS232 w/2wire 2 RS232/485 w/4wier
	SPI	1 x SPI by pin header	
	CAN	-	
	GPIO	5 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 Green LED for system power 1 Orange LED for WLAN	
Button		1 x Power button, 1 x Reset button	
Power	Power Supply Voltage	12V	
	Power Type	DC-in	
	Power Consumption	Boost 15W@12V	
Environment	Operational Temperature	0 ~ 50 °C/-20 ~ 70 °C	
	Operating Humidity	5% ~ 95%	
Mechanical	Dimensions (W x D)	190 x 150 x 43 mm	
Operating System		Android/Linux	
Certifications		CCC/CE/FCC/BSMI Class B	

## Dimensions

Unit: mm



## Ordering Information

Part Number	CPU	Memory	Flash	HDMI	LAN	Serial Port	USB Host	SD	Operating Temperature
EPC-R4710NO-XAA1E	Rockchip RK3399	2GB	16GB	2	2	6	6	1	0 ~ 50 °C
EPC-R4710IO-XAA1E	Rockchip RK3399K	2GB	16GB	2	2	6	6	1	-20 ~ 70 °C
EPC-R4710NO-XAA1BE*	Rockchip RK3399	2GB	16GB	2	2	6	6	1	0 ~ 50 °C
EPC-R4710IO-XAA1BE*	Rockchip RK3399K	2GB	16GB	2	2	6	6	1	-20 ~ 70 °C

\*this sku has BSMI certification

## Packing List

Part Number	Description
EPC-R4710	EPC-R4710 Box computer
1960083394N001	VESA MOUNT BKT 2U2X EPC-R4710

## Optional Accessories

Port Number	Description
96PSA-A36W12W7-5	ADP A/D 100-240V 36W 12V C6 LOCK DC JACK 62368
96PSA-A60W12W7-4	ADP A/D 100-240V 60W 12V LOCK DC PLUG WIDE TEMP
170203183C	Power cord 3P Europe (WS-010+WS-083) 183 cm
170203180A	Power cord 3P UK 2.5A/3A 250 V 1.83 M
1700001524	Power cord 3P UL 180cm
1700008921	Power Cord 3P PSE 183cm
1700019146	Power Cord CCC 3P 10A 250V 183cm
EWM-W188M201E	WiFi 802.11ac/abgn 2T2R and BT4.2
1750008800-01	Antenna Cable R/P SMA (M) to MHF4, 100mm
1750008717-01	Dipole Ant. D.B 2.4/5G WIFI 3dBi SMA/M-R BLK
968AD00479*	4G module LTE Cat 4 for China
EWM-C117FL06E*	LTE 4G,3G WCDMA/DC-HSPA+, 2G module, MPC1-L280H
1750006264	Antenna cable SMA(F)/MHF 15cm
1750008303-01	Antenna AN0727-64SP6BSM
SQF-MSDM1-8G-21C	SQF MICRO SD C10 MLC 8G (-25 ~ 85 °C)

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

## External I/O

