

# EPC-R6410

## NXP i.MX6 Cortex-A9 RISC Embedded Mini-ITX Box Computer



### Features

- NXP ARM Cortex-A9 i.MX6 Dual/Quad 1GHz high performance processor
- On board DDR3 1066MHz 1GB/2GB memory and 8GB EMMC NAND flash
- Supports Dual Display: VGA/HDMI
- Supports 1 x mini-PCIe, 4 x serial ports, 6 x USB, 1 x M.2 socket, 8 x GPIO, 1 x CAN
- Low power consumption, fanless design
- Supports Linux and Android BSP

### Introduction

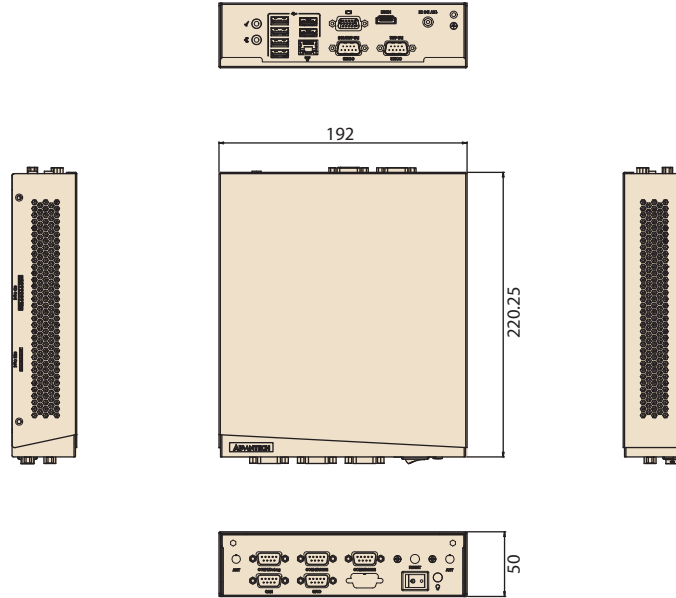
EPC-R6410 is the RISC based box computer which integrated NXP i.MX6D/Q Cortex-A9 1.0GHz high performance processor. It is designed for the applications that require high performance and rich I/O but low power consumption. It supports dual display via HDMI and VGA up to 1080p, 1 Gigabit Ethernet, 6 USB 2.0 and 4 serials, as well as mini-PCIe for 4G/3G and M.2 for WiFi/BT. With wall mount brackets, fanless and dust-proof design, you can easily install in a rugged environment.

### Specifications

Form Factor		Embedded Box Computer
Processor System	CPU	NXP ARM Cortex-A9 i.MX6 Dual/Quad 1GHz processor
	Capacity	1GB/2GB of onboard DDR3 at 1066 MHz
	Flash	8 GB of eMMC NAND Flash for OS and 4 MB of SPI NOR Flash for ADV loader
Ethernet	Transceiver	RTL 8211
	Speed	1 x 10/100/1000 Mbps
WatchDog Timer		C8051 (time out: 0.1~6553.5s, power on/off 4s)
I/O	USB	6 x USB2.0 host
	Serial	4 (3 of RS-232 w/ 4wire, 1 of RS-232/422/485 w/ 4wire)
	CAN	1
	GPIO	8
	Button	1 x Reset button, 1 x Power button
Expansion	SD Socket	1 x SD slot
	Mini-PCIe	1 (USB signal only)
	M.2	1 (E-Key)
Power	Power Supply Voltage	12 V DC-in
	Power Type	DC-Jack
	Power Consumption	6W@Max Mode
Environment	Operational Temperature	0 – 55 °C
	Operating Humidity	5 – 95% relative humidity, non-condensing
Mechanical	Dimensions (W x D x H)	200 x 230 x 50 mm
Operating System	Android	Android4.4.2@ Kernel V3.0.35/Android6.0@kernel V4.1.15
	Linux	Yocto1.7, Kernel V3.14.28/Yocto2.1@Kernel V4.1.15
Certifications		CE/FCC/CCC Class B

## Dimensions

Unit: mm



## Ordering Information

Part Number	CPU	Memory	eMMC	SD	CAN	UART	GPIO	VGA	HDMI	USB Host	LAN	Operating Temperature
EPC-R6410CD-PAA1E	NXP i.MX6D	1GB	8GB	1	1	4	8	1	1	6	1	0 ~ 55 °C
EPC-R6410CQ-VAA1E	NXP i.MX6Q	2GB	8GB	1	1	4	8	1	1	6	1	0 ~ 55 °C

## Packing List

Part Number	Description
96966410000/10	NXP i.MX6D/Q 1GHz computing board
1960074545N001	Wall mount

## Optional Accessories

Part Number	Description
96PSA-A36W12R1	ADP A/D 100-240V 36W 12V
170203183C	Power cord 3P Europe (WS-010+WS-083) 183 cm
SQF-ISDS1-4G-82C	SQF SDHC C10 SLC 4G, 1CH (0 ~ 70 °C)
SQF-ISDS1-8G-82C	SQF SDHC C10 SLC 8G, 1CH (0 ~ 70 °C)
SQF-ISDS1-8G-82E	SQF SDHC C10 SLC 8G, 1CH (-40 ~ 85 °C)
170203180A	Power cord 3P UK 2.5A/3A 250 V 1.83 M
1700019146	Power Cord CCC 3P 10A 250V 183cm
1700001524	Power cord 3P UL 10A 125 V 180 cm
968AD00018	Wifi BT module AW-NB136NF
1750002842	Wireless Antenna R-AN2450-5701RS R/P SM
1750007965-01	Antenna Cable R/P SMA (M) to MHF4, 300mm
968AD00081	Qucetel EC20CEFA Mini-PCIe 4G module
1750006264	Antenna cable SMA(F)/MHF 15cm
1750007990-01	Antenna 4G/LTE full band L=11 cm 50 Ohm

## Front View



## Rear View



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