

# EPC-R6410

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



### Features

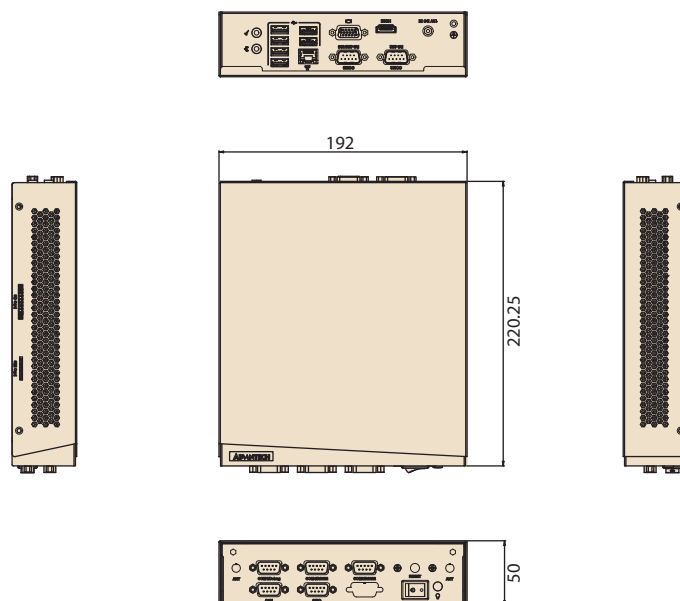
- NXP ARM Cortex-A9 i.MX6 Dual/Quad 1GHz high performance processor
- On board DDR3 1066MHz 1GB/2GB memory and 8GB EMMC NAND flash
- Supports Dual Display: VGA/HDMI
- Supports 1 x mini-PCIe, 4 x serial ports, 6 x USB, 1 x M.2 socket, 8 x GPIO, 1 x CAN
- Low power consumption, fanless design
- Supports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



| 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             |

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

| 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     |



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