

EPC-R3710

Rockchip RK3399 Cortex-A72 UIO40-Express Edge AI Box Computer

NEW



Features

- Rockchip RK3399 ARM Dual Cortex-A72 and Quad Cortex-A53 1.8 GHz
- Onboard LPDDR4 2 GB
- HDMI 1920x1080 at 60Hz
- Dual Lan, 1 2-wire RS-232, 1 USB3.0, 1 USB2.0, 1 Micro SD
- 1 mini-PCIe for LTE/WiFi/BT
- Compatible with UIO40-Express modules: UIO-4030, UIO-4032 and UIO-4034
- Supports Linux and Android
- 4 Kinds of Rear I/O for Each Vertical Focus: IEM, Self Service, Automation and Networking



Introduction

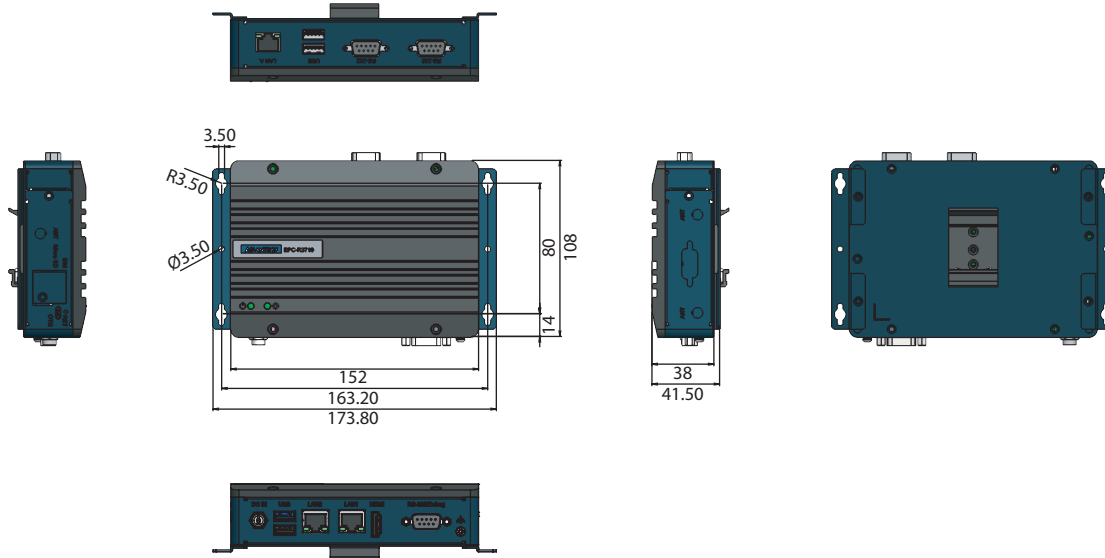
EPC-R3710 is an Arm based Box Computer powered by a high-performance Rockchip RK3399 ARM dual Cortex-A72 and quad Cortex-A53 high performance processor which supports 4K display from HDMI. It offers both rich display as dual HDMI/LVDS/eDP and rich IO as dual GbE/2serials/3USB/12GPIO. EPC-R4710 also features Mini-PCIe slot for integrating Wi-Fi, Bluetooth, and 3G/4G modules. It is an ideal solution for HMI, IoT gateway, healthcare application.

Specifications

| Model | EPC-R3710NO-XAA100 | | EPC-R3710NO-XAA120 | EPC-R3710NO-XAA140 | EPC-R3710NO-XAA160 |
|------------------|-----------------------|--|--|--------------------|--------------------|
| Processor System | CPU | Rockchip RK3399 ARM dual Cortex-A72 and quad Cortex-A53 1.8 GHz | | | |
| Memory | Technology | LPDDR4 | | | |
| | Capacity | 2 GB On-board | | | |
| | Flash | 16GB of eMMC NAND Flash for OS and Advantech's boot loader | | | |
| Graphics | HDMI | 1 HDMI 2.0, 1920 x 1080 at 60Hz | | | |
| | Graphics Engine | OpenGL ES 1.1/2.0/3.1, 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 | RTL8211FSI | | | |
| | Speed | 2 10/100/1000 Mbps | | | |
| Watchdog Timer | Watchdog Timer | Yes | | | |
| Front I/O | USB | 1 x USB3.0 Type A, 1 x USB 2.0 Type A | | | |
| | GbE | 2 x RJ45 for GbE | | | |
| Rear I/O | | 1 x RS-485, 1 x 2 wires RS-232 4 x DIs, 4 x DOs | 2 x 2 wires RS-232 1 x GbE, 2 x USB 2.0 | 2 x 2 wires RS-232 | 4 X GbE (Hub) |
| Expansion | Full-Size Mini PCIe | 1 Full Size Mini PCIe Slot (with PCIe/USB) | | | |
| | M.2 Micro | - | | | |
| | SD Socket | 1 Micro SD Socket | | | |
| | SIM | 1 Nano SIM Slot | | | |
| | Antenna Holes | 3 | | | |
| Power | Power Supply Voltage | +12V | | | |
| | Power Type | Lockable DC-Jack | | | |
| | Power Consumption | 11.5W(burning) | | | |
| Environment | Operating Temperature | 0 ~ 50 °C/-20 ~ 70 °C | | | |
| | Operating Humidity | 5% ~ 95% relative humidity, non-condensing | | | |
| Mechanical | Dimensions | 174 x 108 x 41 mm | | | |
| | Mounting | Wall mount | | | |
| | Weight | TBD | | | |
| Operating System | Linux | Debian | | | |
| | Android | Android | | | |
| Certifications | | CCC/CE/FCC/BSMI Class B | | | |

Dimensions

Unit: mm



Ordering Information

| Part Number | CPU | Memory | Flash | HDMI | LAN | USB | DI/DO | Serial Port | Micro SD | Nano SIM | CAN | Operating Temperature |
|---------------------|-----------------|--------|-------|------|-----|-----|-------|--------------------|----------|----------|-----|-----------------------|
| EPC-R3710NO-XAA100 | Rockchip RK3399 | 2 GB | 16 GB | 1 | 2 | 2 | 4/4 | 1 RS-232, 1 RS-485 | 1 | 1 | - | 0 - 50 °C |
| EPC-R3710NO-XAA120 | Rockchip RK3399 | 2 GB | 16 GB | 1 | 3 | 4 | - | 2 RS-232 | 1 | 1 | - | 0 - 50 °C |
| EPC-R3710NO-XAA140 | Rockchip RK3399 | 2 GB | 16 GB | 1 | 2 | 2 | - | 2 RS-232 | 1 | 1 | - | 0 - 50 °C |
| EPC-R3710NO-XAA160 | Rockchip RK3399 | 2 GB | 16 GB | 1 | 6 | 2 | - | - | 1 | 1 | - | 0 - 50 °C |
| EPC-R3710IO-XAA100 | RK3399K | 2 GB | 16 GB | 1 | 2 | 2 | 4/4 | 1 RS-232, 1 RS-485 | 1 | 1 | - | -20 - 70 °C |
| EPC-R3710IO-XAA120 | RK3399K | 2 GB | 16 GB | 1 | 3 | 4 | - | 2 RS-232 | 1 | 1 | - | -20 - 70 °C |
| EPC-R3710IO-XAA140 | RK3399K | 2 GB | 16 GB | 1 | 2 | 2 | - | 2 RS-232 | 1 | 1 | - | -20 - 70 °C |
| EPC-R3710IO-XAA160 | RK3399K | 2 GB | 16 GB | 1 | 6 | 2 | - | - | 1 | 1 | - | -20 - 70 °C |
| EPC-R3710NO-XAA10B* | RK3399 | 2 GB | 16 GB | 1 | 2 | 2 | 4/4 | 1 RS-232, 1 RS-485 | 1 | 1 | - | 0 - 50 °C |
| EPC-R3710IO-XAA10B* | RK3399K | 2 GB | 16 GB | 1 | 2 | 2 | 4/4 | 1 RS-232, 1 RS-485 | 1 | 1 | - | -20 - 70 °C |

*this sku has BSMI certification

Packing List

| Part Number | Description |
|----------------|------------------------|
| 1960099634N001 | EPC-R3710 mount bkt |
| EPC-R3710 | EPC-R3710 box computer |

Optional Accessories

| Part Number | Description |
|----------------------|---|
| 96PSA-A36W12W7-5 | ADP A/D 100-240V 36W 12V C6 LOCK DC JACK 62368 |
| 170001524 | Power cord 3P UL 10A 125 V 180 cm |
| 170203180A | Power Code 3P UK 2.5A/3A 250V 1.83cm |
| 170203183C | Power Code 3P Europe 183cm |
| 1700019146 | Power Cord CCG 3P 10A 250V 183cm |
| 968AD00479* | EC20CEFAG-MINIPCIE R2.1 LTE Cat 4 |
| 1750006264 | Antenna cable SMA(F)/MHF 15cm |
| 1750007990-01 | Antenna 4G/LTE full band L=11 cm 50 Ohm |
| EWM-W159M201E | IEEE 802.11a/b/g/n/ac 2T2R and BT 5.0 Module (M.2 2230) |
| EXM-CMPF1-M2E01 | E M.2(NGFF) to MiniPCle KEY-E Adapter |
| 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 |
| 1960015198T011 | DIN RAIL KIT |
| SQF-MSDM1-8G-21C SQF | MICRO SD C10 MLC 8G (-25 - 85 °C) |

*Please contact us for suggesting suitable cellular module for your region

Front I/O

