

EC2100

ARM Cortex™-A9 Quad-Core All-in-one Embedded Computer

Features

- High-performance ARM quad-core embedded computer
- 7" and 10.1" LCD with touch screen
- Low power consumption
- Rich interfaces, supports I²C, GPIO
- Light weight aluminum enclosure
- OS: Android 4.2, Ubuntu 11.10
- 9V ~ 36V wide range power input
- Over voltage protection (optional)
- NTSC/PAL video-in module (optional)

- Typical Applications:
 - HMI
 - Digital Signage
 - Vehicle Infotainment
 - Data logger

EC2107 (shown with Android)



EC2110 (shown with Ubuntu)



EC2100

ARM Cortex™-A9 Quad-Core All-in-one Embedded Computer

Specifications

(*1) Not including antennas

| | EC2107 | EC2110 |
|-------------------------|--|--|
| Display | 7" TFT LCD | 10.1" LVDS |
| Resolution / Colors | 800 × 480 / 262K | 1280 × 800 / 16M |
| Touch Screen | 4-wire resistive | projected capacitive |
| OS Supported | Android 4.2 / Ubuntu 11.10 | |
| CPU | Freescale iMX 6 Quad- / Dual- / Single-Core ARM Cortex-A9 @ 1GHz | |
| Memory | 1 GB / 512 MB (for Single-Core) DDR3 SDRAM | |
| Storage | 4 GB NAND flash (eMMC) | |
| Display / Audio | 1 × HDMI connector / 1 × MIC in, 1 × headphone | |
| LAN | 1 × 10/100/1Gb Ethernet (RJ-45 connector) | |
| SD Card | 1 × microSD card slot | |
| Serial Port | 1 × RS-232 port, 1 × RS-485 port, 1 × debug (console) port | |
| USB | 1 × USB2.0 OTG port, 2 × USB 2.0 host ports | |
| I ² C / GPIO | 1 × I ² C master port / 1 × 8-bit GPIO port | |
| Power Adapter | DC +12 V @ 2A | |
| Enclosure | Aluminum (black color) | |
| Environment | Operating temperature: 0 °C to 60 °C | |
| Dimensions (W × H × D) | 211 × 135 × 40 mm (*1) | 266 × 195 × 43 mm (*1) |
| Weight | (TBD) | (TBD) |
| (Optional functions) | 1 × CAN bus port + additional 8-bit GPIO + over voltage protection + over current protection | |
| (Optional modules) | 802.11 b/g/n Wi-Fi module | Bluetooth module |
| | 4 × RS232/RS485 port module | 4-ch AV-in (NTSC/PAL) video capture module |

Ordering Information

| | 7" LCD with resistive TP | | 10.1" LCD with capacitive TP | |
|-----------|---|--------------------------------|--------------------------------|--------------------------------|
| | Android | Ubuntu | Android | Ubuntu |
| iMX6Q CPU | EC2107WV-QAR EC2107WV-QAR-V | EC2107WV-QUR EC2107WV-QUR-V | EC2110WX-QAC EC2110WX-QAC-V | EC2110WX-QUC EC2110WX-QUC-V |
| iMX6D CPU | EC2107WV-DAR EC2107WV-DAR-V | EC2107WV-DUR EC2107WV-DUR-V | EC2110WX-DAC EC2110WX-DAC-V | EC2110WX-DUC EC2110WX-DUC-V |
| iMX6S CPU | EC2107WV-SAR EC2107WV-SAR-V | EC2107WV-SUR EC2107WV-SUR-V | EC2110WX-SAC EC2110WX-SAC-V | EC2110WX-SUC EC2110WX-SUC-V |
| | The "-V" option includes the functions: 1 × CAN bus + additional 8-bit GPIO + over voltage protection + over current protection | | | |