

WUAAXA Series SBC - NXP ARM Cortex-A9 i.MX6



Specifications

Features

- NXP Cortex-A9 Dual /Quad core @1.0GHz
- On-board DDR3 Up to 2GB & 8GB eMMC NAND Flash
- Support LVDS high solution display & RGB Parallel interface
- Full HD Decoder, 2D/3D, OpenGL
- Low power consumption
- Support Android 4.2.2
- Support 5 type TFT Module from 5"~12.1" (Support RGB & LVDS)



| Form Factor | | Description |
|-------------------------|-----------------|---|
| Processor System | Cpu | NXP i.MX6 Family, Base on ARM Cortex-A9 processor |
| | | iMX6 Q - Quad core 1.0GHz (Quad core up to 1GHz per core) |
| | | iMX6 DL - Dual core 1.0GHz (Dual core up to 1GHz per core) |
| Memory | Memory | iMX6 S – Solo core 1.0GHz (Single core up to 1GHz per core) |
| | Mass storage | Onboard DDR3L 1GB x64 bit (2GB Max) |
| Video | LVDS | On-board eMMC drive, up to 8GB(128GB Max) |
| | RGB | 2 x 24 bit LVDS (1024*600 、 1024*768 or 1280*800; 1 reserved) |
| Graphic | Graphic engine | 24-bits TTL with DE+ H/V sync(800*480) |
| | H/W Video codec | Dedicated 2D Hardware accelerator |
| | Display | Dedicated 3D Hardware accelerator(Supports OpenGL ES2.0 3D) |
| Network | Ethernet | Support MPEG 1/2/4, H.264 Hardware Decoder. |
| USB | USB | Support 2 independent display with iMX6DL and i.MX6S |
| | | Support 3 independent display with iMX6D and i.MX6Q |
| Audio | Audio | 1 GbE + IEEE1588 with RJ45 slot |
| | | 2 Standard USB 2.0 type A ; 1 x USB 2.0 OTG |
| I/O | Serial port | 2 x USB 2.0 with pin header |
| | SPI | Wolfson Audio codec |
| | IIC | Mic in, Line out internal pin header |
| | GPIO | 1 x RS232 (DB9 ; console,) ; 1 x RS485/422/232 (ePHD Housing) ; |
| | | 2 (Host, reserved) |
| | | 2 (Client,1 for PCAP use) |
| | | 16-pin 3.3V TTL Level GPIOs |

| | | |
|-------------------------|------------------------------|---|
| Touch Panel | Resistive | 4-wire Resistive type(onboard) |
| | Capacitive | CTP is driven IIC interface |
| Clock | RTC | RTC Circuitry for low power consumption option RTC Battery with lead cable and connector |
| | Expansion | SD Socket |
| | WIFI/BT | BLE 4.0 (SDIO interface for option WIFI Module) |
| Power | Voltage | DC12V \pm 10% |
| | Consumption | 2.5W |
| Environment | Temperature | -10 $^{\circ}$ C ~ 60 $^{\circ}$ C (Operating) |
| | | -20 $^{\circ}$ C ~ 70 $^{\circ}$ C (Storage) |
| Dimension | 114mm * 95mm*20mm | |
| Operating System | Android 4.2.2 (WUAAA Series) | |
| Certification | CE/FCC Class B | |

Block Diagram



