

- 3.5" industrial mainboard with CPU Cooler, platform over 10 years lifecycle.
- Allwinner ARM Cortex-A7 A40i Quad Core up to 1.2GHz for industrial processor platform.
- Onboard 1GB DDRIII Memory and 8GB eMMC.
- Support single/dual LVDS Out up to 1920 x 1080@60fps, HDMI1.4 Out at 1080p@60Hz, 4 Lanes MIPI DSI Out.
- On-chip Mali400 MP2 GPU, support OpenGL ES2.0/Open-VG 1.1, HD H.264 video encoder up to 1080p@45fps.
- Onboard WiFi/BT modules, mini-PCIE for 4G option with SIM slot.
- Support Android 7.1 and Linux 3.10.

Introduction

DJ-A40IE is a small form-factor industrial Android Motherboard based on Allwinner Cortex-A7 A40i Quad Core processor, frequency up to 1.2GHz, this board brings powerful video and audio processing to your application, and offers rich interface such as LVDS, HDMI, eDP, LAN, UART, USB, GPIO, especially suitable for small size equipment.

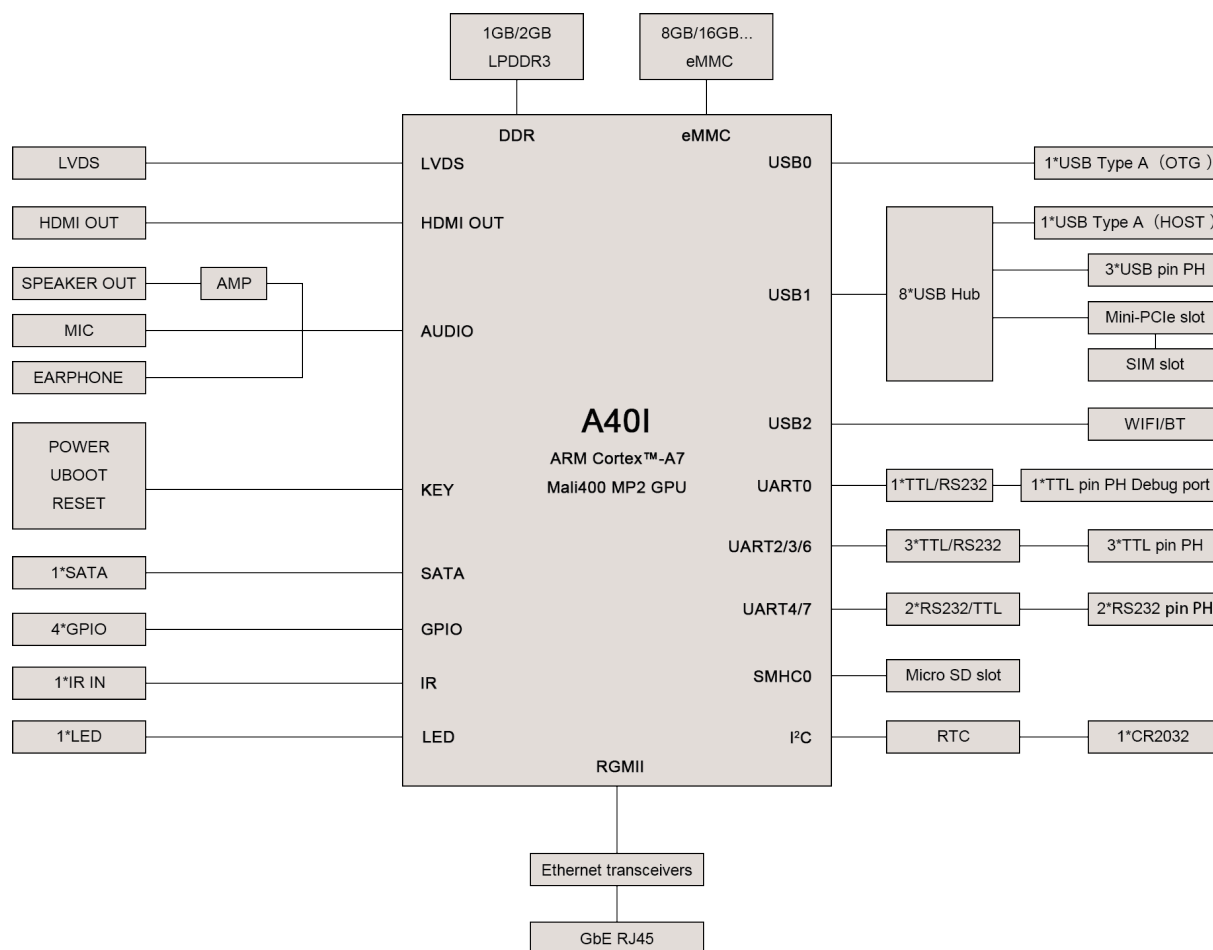
It ideal for Smart Embedded Device, Self-service terminal, IoT device, AI edge computer, Medical Device, Smart Home, Digital Signage, Industrial control products and more.

Specifications

CPU	Allwinner ARM Cortex-A7 A40i Quad Core processor, freq.1.2GHz
GPU	Mali400 MP2, Supports OpenGL ES 2.0 , Open VG1.1, HD video encoder
Memory	Onboard 1GB DDR3L (optional 2GB)
Storage	Onboard 8GB eMMC Nand Flash (optional 16GB/32GB...)
TF Card Slot	1x TF Card Slot, support 8GB/16GB/32GB/64GB...
SATA	1x SATA Slot with Power supply slot, support SATA 1.5Gb/s and SATA 3.0Gb/s
Display	1x Dual channels LVDS up to 1920*1080(30Pin header) 1x Touch screen signal (I2C, 6PIN socket) 1x HDMI Out terminal
Ethernet	1x RJ45 LAN, 10/100/1000Mbps 1x Mini PCIe slot with SIM Card Slot, support 3G/4G Onboard Wi-Fi/BT Module, support 802.11 b/g/n and BT4.0
USB	1x USB2.0 Type A 1x OTG Type A (and as Host) 3x USB2.0 Pin header
UART	5x 4-wire RS232/TTL, Pin header (default 2x RS232 and 3x TTL) 1x 4-wire RS232/TTL, As debugging port

Audio	1x 3.5mm Head phone slot 1x MIC In (2Pin header) 1x Speaker Out (4Pin header) With power amplifier circuit, support left and right channel output, built-in 4Ω/20W, 8Ω/10W amplifier
Camera	1x CMOS Camera Interface, pin header
I/O	4x GPIO via pin header 1x Buttons (Reset Button, Power Button and UBoot button) 2x LEDs (red, blue) 1x IR circuit, support infrared remote control
RTC	Support
Sleep/Wake up	Support
Power Supply	DC-in 12V, 1x DC-in Slot, 1x 4Pin header
Temperature	Operating Temperature: -20°C - 60°C Humidity: 5%~95%RH, no condensation Storage Temperature: -40°C - 85°C Humidity: 5%~95%RH, no condensation
Dimensions (W x D)	118 x 88mm
OS	Android 7.1 and Linux3.10

Block Diagram



Size&Interface

