

ICM-3010 series

3.5" Freescale i.MX6 CPU Board

Preliminary



Features

- All solid capacitors & 1% precision resistors design
- Industry & jump-less design
- Power on/off test over 100 times before shipment
- Freescale Cortex-A9 i.MX6 DualLite 1.0 GHz
- On-board DDR3 1GB
- 2 x 18/24 bit LVDS output
- 1 x HDMI 1920x1080
- 1 x 10/100/1000 Mbps Ethernet
- 4 x USB 2.0(2 external + 2 internal)
- 5 x RS-232(8-wire), 1 x RS-485, 1 x CAN
- 2 x 1W speaker output
- 3 x mini-PCIe for WLAN/WWAN support
- 1 x standard SD slot
- 1 x EMBUX X-Port for EIS(EMBUX intelligent system)
- Multiple OS support in Linux/Android
- Low power consumption, 5V DC input



Specifications

System

CPU	Freescale i.MX6 Cortex-A9 DualLite 1.0 GHz (Solo/Quad by request)
System Memory	Onboard 1GB DDR3-800 SDRAM
Flash	8MB NOR Flash
HDMI	1 x HDMI 1920x1080
LVDS	2 x 18/24 bit LVDS
Watchdog	1~256 level (second)

I/O

LAN	1 x 10/100/1000 Mbps (RJ45 with LED x 2)
USB	2 x USB 2.0 (double deck) 2 x USB 2.0 (header)
Serial Port	1 x RS-232 (8-wire) header 1 x RS-485 (3.5mm terminal block)
CAN	1 x CAN (shared with RS-485) header
GPIO	7 x GPIO

Expansion

PCIe	2 x full size mini PCIe (PCIe & USB signal) 1 x full/half size mini PCIe (USB signal only)
SATA	1 x SATA port (SATA II, Quad model only)
SD	2 x standard SD slot
SIM	1 x SIM card slot

Audio

2 x 1W speaker output (header)
1 x Line-out / 1 x Line-in / 1 x Mic-in (header)

Software

Linux	Embedded Linux 3.0.35 (Ubuntu 12 available)
Android	Jelly Bean 4.3 (others by request)

Power

DC-input	5V (4.75V~5.25V)
Control	Power on by DC attached or via power button.
Consumption	TBC

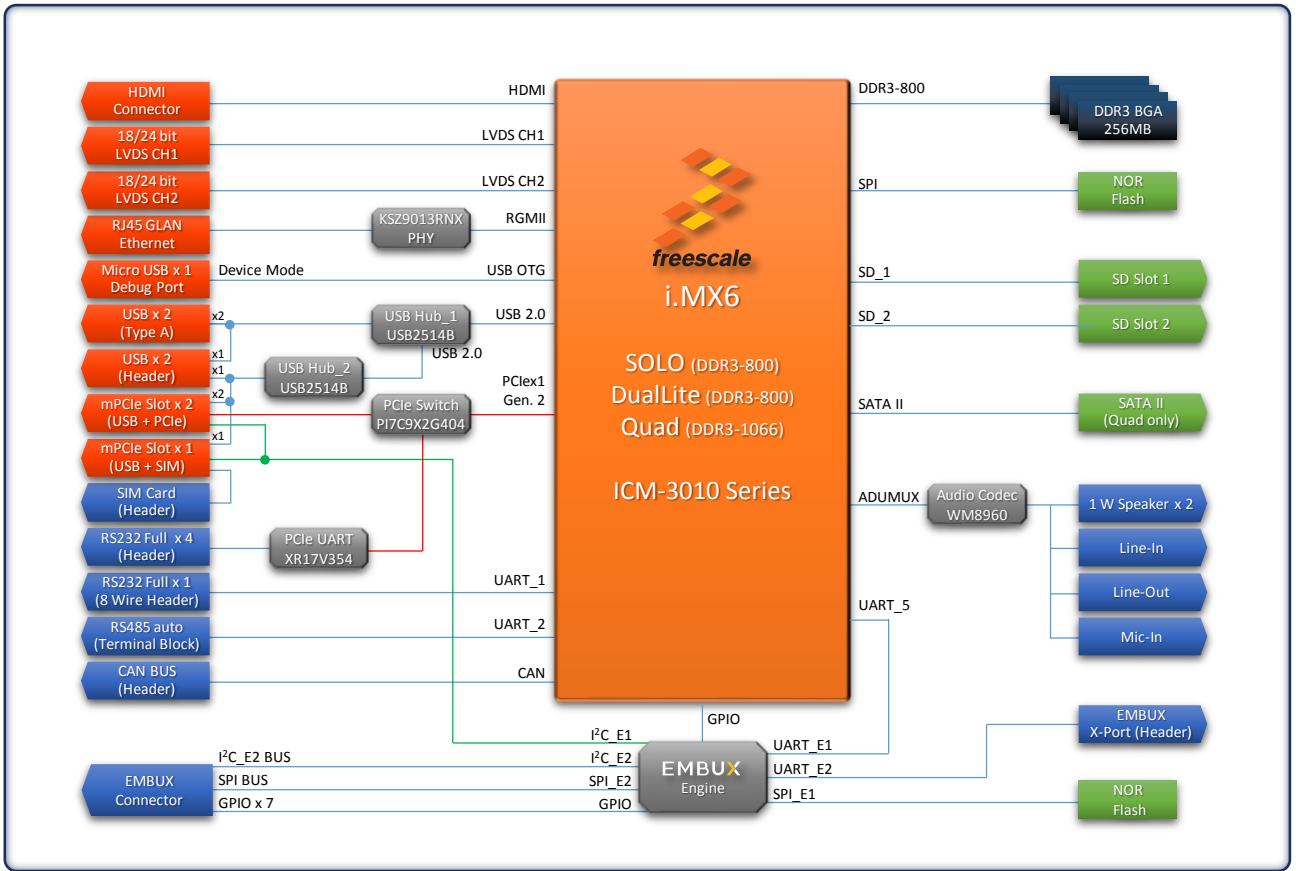
Mechanical & Environmental

Operating Temperature	0°C ~ 60°C
Operating Humidity	5%~95% Relative Humidity, Non-condensing
Dimensions	3.5" (146 x 102 mm)

Certification

CE/FCC

Block Diagram



Ordering Information

Part No.	Description
ICM-3010D-00A1	3.5" Freescale i.MX6 DualLite 1.0 GHz computing Board w/ 1GB DDR3, HDMI, 2 x 18/24 bit LVDS, LAN, USB, audio

Packing List

Part No.	Description	Quantity
ICM-3010D-00A1	3.5" Freescale i.MX6 DualLite 1.0 GHz computing Board w/ 1GB DDR3, HDMI, 18/24 bit LVDS, LAN, USB, audio	1

Optional Accessories

Part No.	Description
5220503000R	Power cable (USB to DC-Jack lockable) 30cm
5379025000R	Adapter 25W, 5V/5A DC output (115~230Vac input)
5220318000R	Power adapter cord 180cm (Europe)
5220318001R	Power adapter cord 180cm (US)
ASD3-ML001-A1	8GB MLC SD card w/Linux
ASD3-MA001-A1	8GB MLC SD card w/Android