

ICM-2011 series

2.5" Pico-ITX Freescale i.MX6 CPU Board



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 SOLO/DualLite 1.0 GHz
- On-board DDR3 512MB / 1GB
- 1 x 18/24 bit LVDS output
- 1 x HDMI 1920x1080
- 1 x 10/100/1000 Mbps Ethernet
- 2 x USB 2.0
- 1 x RS-232 (8-wire), 2 x RS-232 (4-wire), 2 x CAN
- 1 x RS-485 (Terminal), Optional 2nd RS-485 (UART3)
- 1 x standard SD slot, 1 x SDIO (10-wire)
- Multiple OS support in Linux/Android
- Low power consumption, 5V DC input



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PROJECT



Specifications

System

CPU	Freescale i.MX6 Cortex-A9 SOLO/DualLite 1.0 GHz
System Memory	Onboard 512MB/1GB DDR3-800 SDRAM
Flash	8MB NOR Flash
HDMI	1 x HDMI 1920x1080
LVDS	1 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	1 x 2 USB 2.0 (double deck)
Serial Port	1 x RS-232 (8-wire) header 2 x RS-232 (4-wire) header 1 x RS-485 (Terminal) 1 x RS-485 (2-wire, optional)
CAN	2 x CAN (miscellaneous header)
GPIO	8 x GPIO (i.mx6), 7 x GPIO(MCU)

Expansion

SD	1 x standard SD slot 1 x SDIO (10-wire)
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Software

Linux	Embedded Linux 3.0.35 (Ubuntu 12.04 available)
Android	Lollipop 5.02 (others by request)
yocto	yocto 1.6.2
WEC	Windows Embedded Compact 7

Power

DC-input	5V (4.75V~5.25V)
Control	Power on by DC attached or via power button.
Consumption	~3W

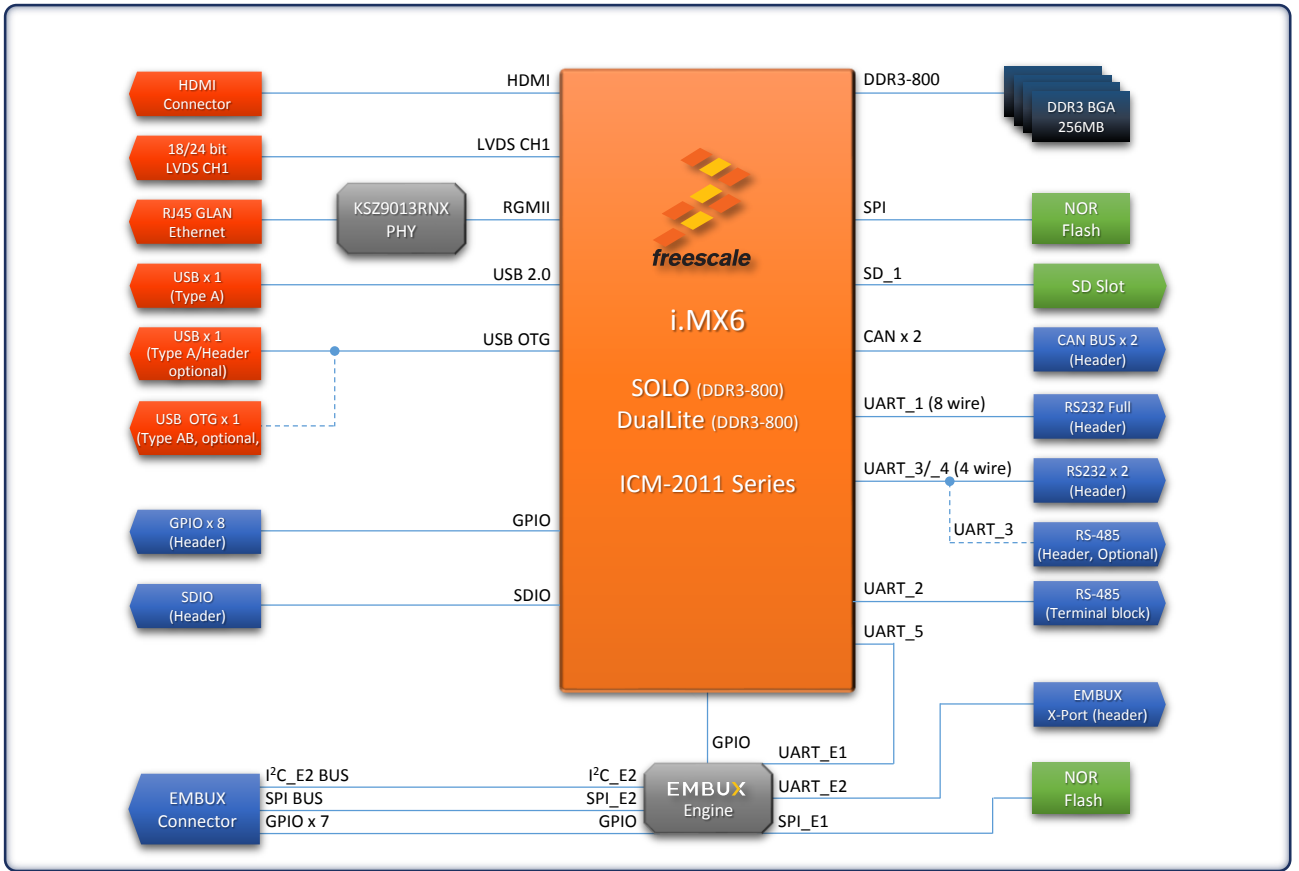
Mechanical & Environmental

Operating Temperature	0°C ~ 60°C
Operating Humidity	5%~95% Relative Humidity, Non-condensing
Dimensions	PICO-ITX (100 x 72 mm)

Certification

CE/FCC

Block Diagram



Ordering Information

Part No.	Description
ICM-2011D-00A1	2.5" Pico-ITX Freescale i.MX6 DualLite 1.0 GHz computing Board w/ 1GB DDR3, HDMI, 18/24 bit LVDS, RS232x3, CANx2, LAN, USBx2

Accessory option

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

Packing List

Part No.	Description	Quantity
ICM-2011S-00A1	2.5" Pico-ITX Freescale i.MX6 SOLO 1.0 GHz computing Board w/ 512MB DDR3, HDMI, 18/24 bit LVDS, RS232x3, CANx2, LAN, USBx2	1