

Main Features

- ◆ NXP ARM Cortex-A9 i.MX6 DualLite 1.0 GHz
- ◆ Onboard DDR3 1GB, 4GB eMMC Flash
- ◆ HDMI, 18/24-bit LVDS output
- ◆ 6 x RS-232, 2 x RS-485, 2 x CAN, 4 x USB 2.0
- ◆ Dual mini-PCIe for Wi-Fi/3G support
- ◆ 10.8 ~ 26.4 VDC wide power input
- ◆ Diversified OS support in Linux/WEC7(OEM)

Specifications

CPU

- ◆ NXP i.MX6 DualLite 1.0 GHz Cortex-A9

System Memory

- ◆ Onboard 1GB DDR3-800 SDRAM

Flash

- ◆ 4GB eMMC NAND Flash
- ◆ 8MB NOR Flash

HDMI

- ◆ 1 x HDMI 1920x1080 *
- * HDMI has no audio support

LVDS

- ◆ 1 x 18/24-bit LVDS

Watchdog Timer

- ◆ 1~256 level (0.5 second/level)

LAN

- ◆ 1 x 10/100/1000 Mbps (RJ45 with LED x 2)

USB

- ◆ 1 x 2 ports USB 2.0 (header), 1 x 2 ports USB 2.0 (double-deck connector)

USB OTG

- ◆ 1 x micro USB

Serial Port

- ◆ 4 x RS-232 (8-wire) header
- ◆ 2 x RS-232 (4-wire) header
- ◆ 1 x RS-485 (3.5mm terminal block)

CAN

- ◆ 2 x CAN (miscellaneous header)

GPIO

- ◆ 8 x GPIO

Audio

- ◆ 1 x Line-out (phone jack)
- ◆ 1 x Line-in (header)
- ◆ 2 x 1W Speaker Out (Wafer)

SD Card

- ◆ 1 x SD card slot

Expansion

- ◆ PCIe
 - 1 x Half/full size mini PCIe (PCIe & USB signal)
 - 1 x Half/full size mini PCIe (USB signal)
- ◆ SIM
 - 1 x SIM card socket

Software

- ◆ Yocto: Daisy 1.6.2
- ◆ WEC: Windows Embedded Compact 7 (customization)

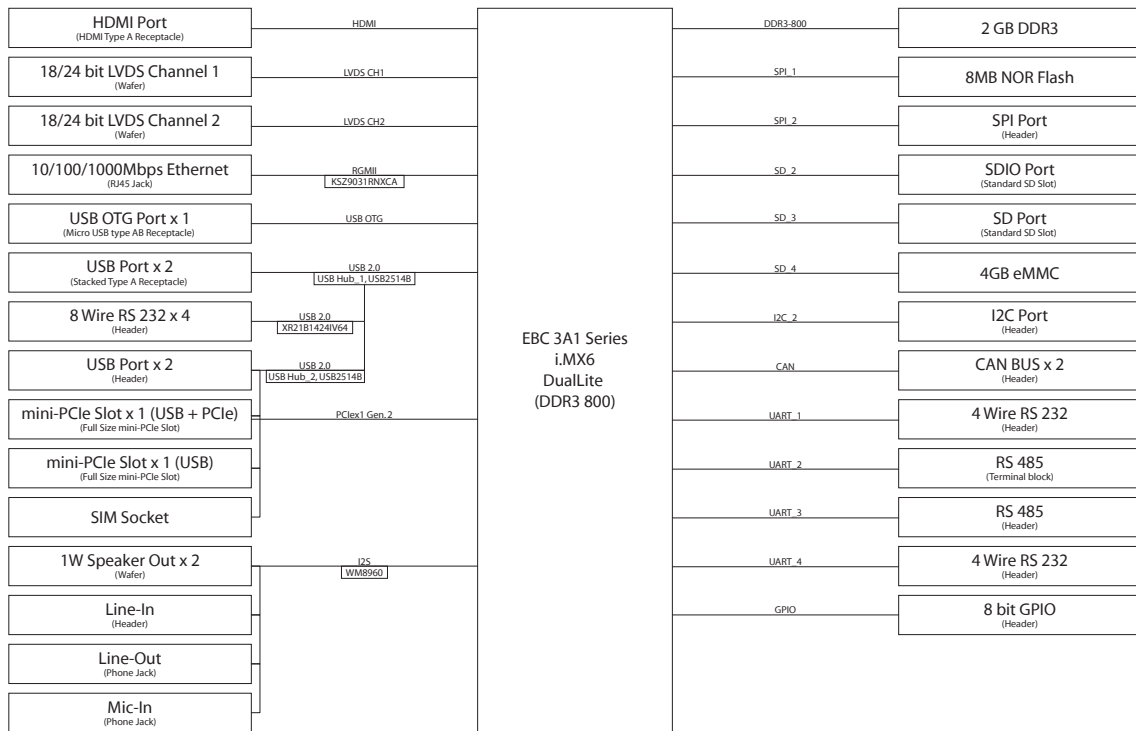
Power

- ◆ DC-input: 10.8V ~ 26.4V
- ◆ Control: power on by DC attached or reset button
- ◆ Consumption: ~3.5W

Mechanical & Environmental

- ◆ Operating temp: -20~65°C
- 20~55°C with 3D play application
- ◆ Operating humidity: 5%~95% relative humidity, non-condensing
- ◆ Dimension: 3.5" SBC (146mm X 102mm)

Block Diagram



Ordering Information

- ♦ **EBC3A1-1G Y0 (P/N: 10E0003A106X4)**
3.5" SBC, i.MX6DL 1GHz, DDR3 1GB, 2 x mini-PCIe, with yocto OS, HDMI/LAN/4GB, eMMC /4xUSB/6xRS 232/2xRS, 485/2xCAN/10.8V 26.4V

Packing List

- ♦ **EBC3A1-1G XX**
3.5" SBC, i.MX6DL 1GHz, DDR3 1GB, mini-PCIe, with OS

Optional Accessories

- ♦ **Adapter 60W, 12V/5A DC output (115~230 VAC input) (P/N: 7400060044X00)**
- ♦ **Power adapter cord 180cm (EU) (P/N: 60233POW18X00)**
- ♦ **Power adapter cord 180cm (US) (P/N: 60233POW17X00)**