SCM120

SMARC v1.0 SoM with iMX6 Quad/DualLite 800 MHz (Industrial) SoC, 1GB RAM, 4GB eMMC, GbE LAN, Audio, CAN, MIPI and PCAM
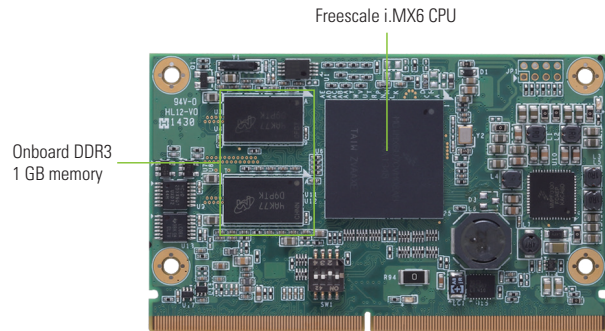
Features

- SMARC 1.0 (82 x 50 mm)
- Ultra low power consumption Cortex™-A9
- 2 CAN 2.0B
- 24-bit TTL signal
- LVDS/HDMI 1080P
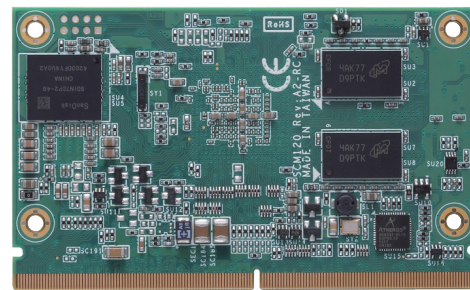- 10/100/1000 Mbps Ethernet
- Linux3.0.35/Android 4.3
- Audio

Freescale i.MX6 CPU

Onboard DDR3 1 GB memory

▲ Top view

▲ Rear view

Core System

Processor	Freescale i.MX6 series SoC with Quad/DualLite ARM Cortex™-A9 CPU 800 MHz
System Memory	Onboard DDR3-1600, up to 1GB
OS	Linux kernel 3.0.35, Android 4.3
Storage	eMMC flash 4GB, SDIO interface, SATA interface (only quad support)
RTC	Battery on the Baseboard is required
Power Requirement	+3V to +5.25V
Dimensions	82 x 50 mm
Board Thickness	1.2 mm ± 0.1 mm
Operating Temperature	-40°C to +85°C (-40°F to +185°F)
Operation Humidity	10% - 95%, non-condensing

I/O

Graphics	1 x 24-bit TTL signal 1 x Dual channel 24-bit LVDS 1 x HDMI 1080P
Ethernet	1 x 10/100/1000 Mbps Ethernet
Audio	Mic-in/Headphone
COM	3 x COM with TX/RX/RTS/CTS 1 x Console port
USB	1 x USB 2.0 1 x OTG client
I²C	4 x I²C interface
SPI	1 x SPI
CAN	2 x CAN
GPIO	8 x GPIO
PCIe	1 x PCIe
Camera	1 x MIPI v1.0, 2 x Lane 1 x PCAM 8-bit

Ordering Information

Standard

SCM120-DualLite-I	SMARC v1.0 module with Freescale iMX6 DualLite 800 MHz (industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, and CAN
SCM120-Quad-I	SMARC v1.0 module with Freescale iMX6 Quad 800 MHz (industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, CAN and SATA

Optional

SCM120-120-EVK DualLite-I	Evaluation kit board
SCM120-120-EVK Quad-I	Evaluation kit board
5078S120100E	SCM120 heatspread (-40˚C to +70˚C)
5078Q120200E	Heatsink (-40˚C to +75˚C)

ARM-based Embedded Boards

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