

# SCM120

SMARC v1.0 SoM with Quad/DualLite 800 MHz (Industrial) SoC, 1GB Memory, 4GB eMMC, Gigabit Ethernet, Audio, CAN, MIPI and PCAM

## Features

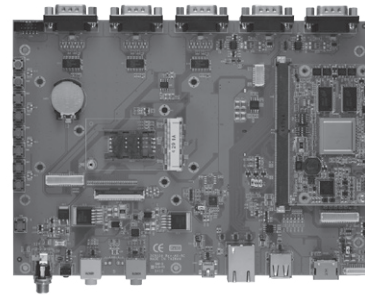
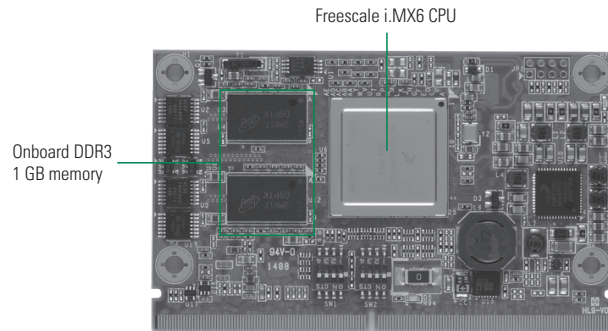
- Ultra low power consumption Cortex™-A9
- SMARC form factor (82 x 50 mm) SoM
- 2 CAN 2.0B
- 24-bit TTL signal
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Linux 3.0.35/Android 4.3
- Audio

## Core System

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| Processor             | Freescape 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 ~ +5.25V                                                             |
| Size                  | 82 x 50 mm                                                               |
| Board Thickness       | 1.2 mm ± 0.1 mm                                                          |
| Operating Temperature | -40°C ~ +85°C (-40°F ~ +185°F) (Industrial)                              |
| Operation Humidity    | 10% ~ 95%, non-condensing                                                |

## I/O

|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| Graphics         | 1 x 24-bit TTL signal<br>1 x Dual channel 24-bit LVDS<br>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<br>1 x console port                          |
| USB              | 1 x USB 2.0<br>1 x OTG client                                           |
| I <sup>2</sup> C | 4 x I <sup>2</sup> C interface                                          |
| SPI              | 2                                                                       |
| CAN              | 2 ports                                                                 |
| GPIO             | 8                                                                       |
| PCIe             | 1 x PCIe                                                                |
| Camera           | 1 x MIPI v1.0, 2 x Lane<br>1 x PCAM 8-bit                               |



▲ SCM120-120-EVK

## Ordering Information

| Standard          |                                                                                                                                |  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|--|
| SCM120-DualLite-I | SCM120 with Freescape iMX6 DualLite 800 MHz (Industrial) SoC, 1GB Memory, 4GB eMMC, 1 GbE LAN, audio, and CAN                  |  |
| SCM120-Quad-I     | SCM120 with Freescape iMX6 Quad 800 MHz (Industrial) SoC, 1GB Memory, 4GB eMMC, 10/100/1000 Mbps Ethernet, audio, CAN and SATA |  |

| Optional                  |                                   |  |
|---------------------------|-----------------------------------|--|
| SCM120-120-EVK DualLite-I | Evaluation kit board              |  |
| SCM120-120-EVK Quad-I     | Evaluation kit board              |  |
| P/N: 5078S120100E         | SCM120 heatspread (-40°C ~ +70°C) |  |
| P/N: 5078Q120200E         | Heatsink (-40°C ~ +75°C)          |  |

ARM  
Embedded  
Boards

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