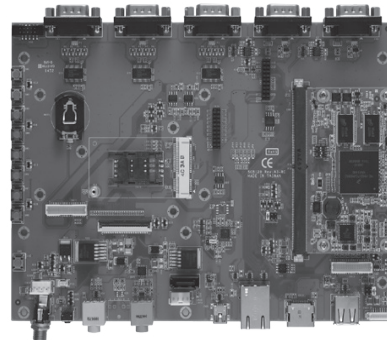


# SCM120-120-EVK

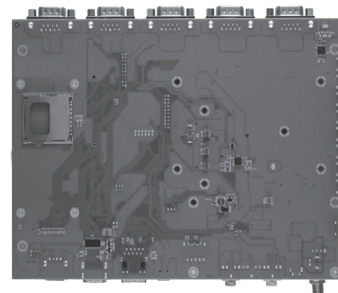
SMARC v1.0 SoM Evaluation Kit with Quad/DualLite 800 MHz (Industrial)  
SoC, 1GB Memory, 4GB eMMC, Gigabit Ethernet, Audio, CAN, MIPI and PCAM

## Features

- Ultra low power consumption Cortex™-A9
- 2 CAN 2.0B
- 24-bit TTL LCD
- LVDS/HDMI 1080P
- 10/100/1000 Mbps Ethernet
- Open GL ES2.0
- Linux3.0.35/Android 4.3
- Audio



▲ Front view



▲ Rear view

## Core System

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Processor          | Freescall i.MX6 Quad/DualLite ARM Cortex™-A9 CPU<br>800 MHz (On SCM120 SoM) |
| System Memory      | Onboard DDR3-1600, up to 1GB (on SCM120 SoM)                                |
| OS                 | Linux kernel 3.0.35, Android 4.3                                            |
| RTC                | Battery on the Baseboard is required                                        |
| Power Requirement  | +5V ± 5%, 5A                                                                |
| Size               | 200 x 140 mm                                                                |
| Board Thickness    | 1.6 mm ± 0.15mm                                                             |
| Operation Humidity | 10% ~ 95%, non-condensing                                                   |

## I/O

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| Graphics                  | 1 x 24-bit TTL LCD<br>1 x HDMI 1080P<br>1 x Dual channel 24-bit LVDS                                  |
| Ethernet                  | 1 x RJ-45 for 10/100/1000 Mbps                                                                        |
| Audio                     | MIC-in                                                                                                |
| COM                       | 1 x COM with TX/RX/RTS/CTS<br>1 x Console port                                                        |
| USB                       | 2 x USB 2.0:<br>1 OTG client and 1 Host                                                               |
| I <sup>2</sup> C          | 4 x I <sup>2</sup> C Interface                                                                        |
| CAN                       | 2 x D-Sub 9-pin male connectors for 2.0B protocol-compatible controller Area Network (CAN) interfaces |
| Keypad                    | 8 button-detect circuit                                                                               |
| Storage                   | 1 x SD/MMC socket<br>1 x SATA connector<br>SPI nor Flash                                              |
| Touch                     | 4-wire touch screen controller                                                                        |
| Mini Card                 | 1 x full-size (with SIM)                                                                              |
| Extension Slot and Socket | 1 x connector with I2C/SPI/UART                                                                       |
| MIPI                      | 1 x serial camera                                                                                     |
| PCAM                      | 1 x PCAM 8-bit                                                                                        |

## Ordering Information

### Standard

|                            |                                               |
|----------------------------|-----------------------------------------------|
| SCM120-120 EVK- DualLite-I | SCM120-120 (DualLite-I) evaluation kit board) |
| SCM120-120 EVK-Quad-I      | SCM120-120 (Quad) evaluation kit board)       |

### Optional

|                   |                                   |
|-------------------|-----------------------------------|
| P/N: 5078S120100E | SCM120 heatspread (-40°C ~ +70°C) |
| P/N: 5078Q120200E | Heatsink (-40°C ~ +75°C)          |

## Packing list

|     |                                                                                                       |
|-----|-------------------------------------------------------------------------------------------------------|
| N/A | - USB OTG cable<br>- Console port cable<br>- Power cable<br>- AC DC adapter 5V/5A 25W<br>- Utility CD |
|-----|-------------------------------------------------------------------------------------------------------|

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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