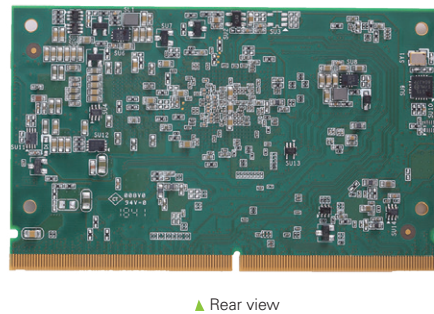
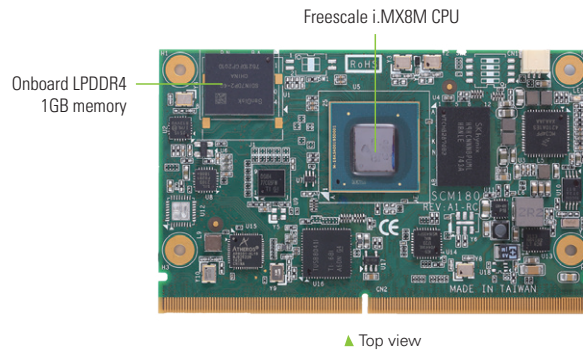


SCM180 NEW

SMARC v2.0 SoM with i.MX8M Quad/Dual 1.5 GHz/1.3 GHz (Industrial) SoC, 4GB RAM, 64GB eMMC, CAN, MIPI CSI/DSI and HDMI 2.0

Features

- SMARC 2.0 (82 x 50 mm)
- Ultra-Low Power i.MX8M Dual/Quad A53 Core
- Single M4 Core
- HDMI 2.0a up to 4K
- MIPI DSI or dual-channel LVDS
- MIPI CSI
- 10/100/1000 Mbps Ethernet
- USB 3.0, USB OTG
- PCIe 2.0
- CAN 2.0B
- Audio



Core System

| | |
|-----------------------|--|
| Processor | Freescale i.MX8M series SoC with Quad/Dual A53 |
| System Memory | Onboard LPDDR4 1GB 3200Mbps, up to 4GB |
| Operating System | Linux Kernel, Android |
| Storage | Onboard eMMC 8GB, up to 64GB; or SD Card |
| Power Requirement | +3V to +5.25V |
| Dimensions | 82 x 50 mm |
| Board Thickness | 1.2 mm ± 0.1 mm |
| Operating Temperature | Commercial: 0°C to +70°C (-32°F to +158°F) Industrial: -40°C to +80°C (-40°F to +176°F) |

I/O

| | |
|------------------|--|
| Graphics | 1 x MIPI DSI 4 Lane; or Dual Channel LVDS 1 x HDMI 2.0; or DP 1.3 |
| Camera | 2 x MIPI CSI2 v1.1 (2 and 4 lane) |
| Ethernet | 1 x 10/100/1000 Mbps Ethernet |
| USB | 1 x USB 2.0 1 x OTG client 2 x USB 3.0 |
| COM | 2 x COM with TX/RX/RTS/CTS 2 x RX/TX (1x Debug Console) |
| I ² C | 3 x I ² C interface |
| QSPI/SPI | 1 x QSPI with 2 chip select 1 x SPI with 2 chip select |
| Audio | 1 x I ² S |
| CAN | 2 x CAN 2.0B |
| GPIO | 12 x GPIO |

Ordering Information

| Standard | |
|------------------|--|
| SCM180-Dual-2G-I | Industrial SMARC v2.0 module Freescale i.MX8M SoC Dual A53, 1.3GHz, 2GB RAM, 8GB eMMC, CAN, and HDMI 2.0 |
| SCM180-Dual-2G-C | Commercial SMARC v2.0 module Freescale i.MX8M SoC Dual A53, 1.5GHz, 2GB RAM, 8GB eMMC, CAN, and HDMI 2.0 |
| SCM180-Quad-2G-I | Industrial SMARC v2.0 module Freescale i.MX8M SoC Quad A53, 1.3GHz, 2GB RAM, 8GB eMMC, CAN, and HDMI 2.0 |
| SCM180-Quad-4G-I | Industrial SMARC v2.0 module Freescale i.MX8M SoC Quad A53, 1.3GHz, 4GB RAM, 8GB eMMC, CAN, and HDMI 2.0 |
| SCM180-Quad-4G-C | Commercial SMARC v2.0 module Freescale i.MX8M SoC Quad A53, 1.5GHz, 4GB RAM, 8GB eMMC, CAN, and HDMI 2.0 |
| 7118S180000E | SCM180 heatsink |
| 7128S180000E | SCM180 heatspreader |

