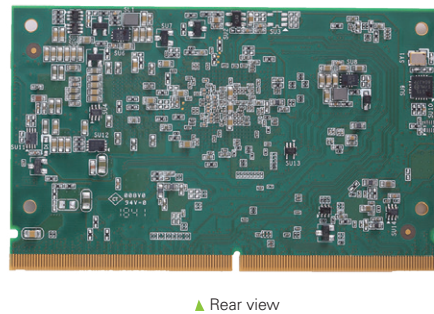
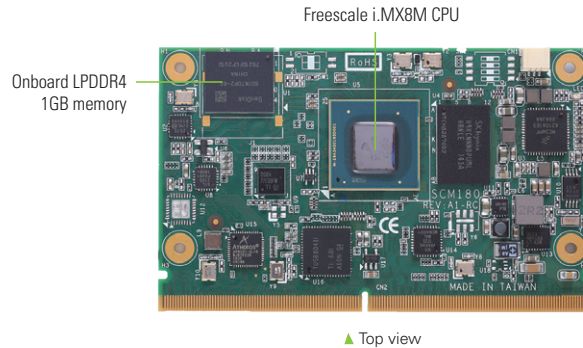


# SCM180 NEW

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 <sup>2</sup> C	3 x I <sup>2</sup> C interface
QSPI/SPI	1 x QSPI with 2 chip select 1 x SPI with 2 chip select
Audio	1 x I <sup>2</sup> 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



ARM-based Embedded Boards

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