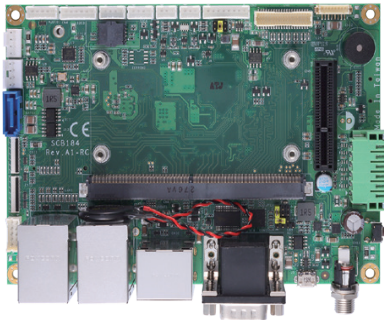
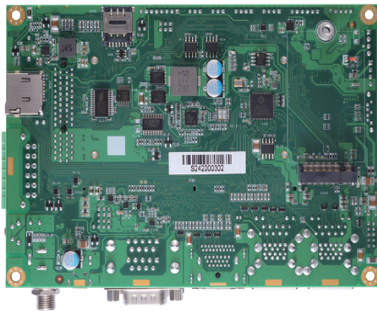


SCB184 NEW

Application Baseboard for Embedded SMARC Module



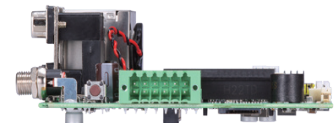
▲ Top view



▲ Rear view



▲ Front view



▲ Side view

Features

- Ready-to-use SMARC baseboard
- Platform for rapid customizing
- Supports for fast implementation and improved time-to-market
- Quad USB, dual GbE LAN, dual COM, and dual CANbus
- HDMI, DisplayPort, and dual-channel LVDS output
- Supports SIM and M.2 5G module
- 12V to 24V wide voltage

Specifications

Internal I/O and Features

PCIe	1 x PCIe x4 Slot
USB	1 x USB header for 2 x USB 2.0
Audio	1 x Line In/Line Out
CANBus	2 x CANBus
I ² C	2 x I ² C header
SPI	1 x SPI header
QSPI	1 x QSPI header
Graphics	1 x Dual-channel 24-bit LVDS 1 x 8-pin connector for inverter
5G	1 x SIM card slot 1 x M.2 Key B 3052 for 5G module
SATA	1 x SATA for SATA III 1 x SATA power
Fan	1 x Fan control
RTC	1 x RTC battery (CR2032)
Security	TPM 2.0 (optional)

External I/O

Ethernet	2 x GbE LAN
USB	4 x USB 3.2 Type A
Graphics	1 x HDMI 1 x DisplayPort

COM	1 x DB9 for RS232 1 x DB9 for RS232/RS485
OS Flash	1 x OS flash
GPIO	10 x GPIO
Power	1 x Lockable DC Jack (12V-24V)
Reset	1 x Reset button
Storage	1 x Micro SD slot

* The connected SMARC module must also support the features for the connector to function. Refer to the SMARC module's datasheets for information about supported features.

Mechanical and Environmental

Power Input	12V to 24V DC-in
Dimensions	146 x 102 mm (approx. 5.75" x 4.02")
Operating Temperature	-20°C to +70°C (-4°F to 158°F)
Operating Humidity	10% to 95%, non-condensing
Storage Temperature	-40°C to +85°C (-40°F to 185°F)
Storage Humidity	10% to 95%, non-condensing
Certification	CE

Ordering Information

Standard

SCB184-EMMC-AX (P/N: E39E184100)	Baseboard of Embedded SMARC Module, default boot mode at eMMC, for SMARC Module with eMMC onboard
SCB184-SD-AX (P/N: E39E184101)	Baseboard of Embedded SMARC Module, default boot mode at Micro SD card, for SMARC Module without eMMC onboard

Optional

SCM186-4R8E-C2 (P/N: E38S186104)	SMARC Module, NXP i.MX 8M Plus 1.8GHz SoC Quad A53 with 4GB RAM, 8GB eMMC, HDMI, LVDS, LAN and USB, and commercial variant
ACC100-186-HS (P/N: E39R100101)	SCM186 heatsink kit (0°C to +70°C)
ACC100-186-HSP (P/N: E39R100102)	SCM186 Heat spreader kit
SCM187-4R8E-IL (P/N: E38S187100)	SMARC Module, NXP i.MX 8M Mini 1.6GHz SoC Quad A53 with 4GB RAM, 8GB eMMC, industrial variant, and LVDS
SCM187-2R8E-IL (P/N: E38S187102)	SMARC Module, NXP i.MX 8M Mini 1.6GHz SoC Quad A53 with 2GB RAM, 8GB eMMC, industrial variant, and LVDS
SCM187-4R0E-CH (P/N: E38S187101)	SMARC Module, NXP i.MX 8M Mini 1.8GHz SoC Quad A53 with 4GB RAM, without eMMC, commercial variant, and HDMI
ACC100-187-HS (P/N: E39R100103)	SCM187 Heatsink kit (-40°C to +75°C)
ACC100-187-HSP (P/N: E39R100104)	SCM187 Heat spreader kit

*Specifications and certifications may vary based on different requirements.

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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