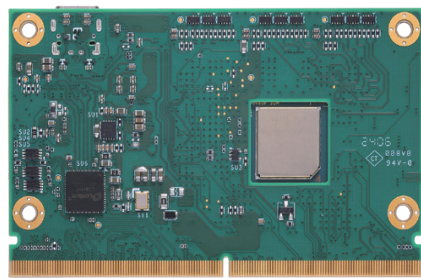


SCM140 Preliminary

RISC Embedded SMARC v2.1 SoM with Qualcomm QCS6490 Octa-core Processor, up to 2.7GHz



▲ Top view



▲ Rear view

Features

- SMARC 2.1 (82 x 50 mm)
- Qualcomm QCS6490 Octa-core processor
- Qualcomm AI Engine, up to 13 TOPS
- LPDDR4x, up to 8GB
- UFS, up to 128GB
- HDMI1.4
- 10/100/1000 Mbps Ethernet
- USB 3.2
- MIPI-CSI

Specifications

Core System

CPU	Qualcomm QCS6490 octa-core processor
System Memory	LPDDR4x, up to 8GB
AI Accelerator	Qualcomm AI Engine, up to 13 TOPS
Operating System	Linux Kernel
Storage	UFS 128GB
Power Requirement	+3 to +5.25V
Dimensions	82 x 50 mm
Board Thickness	1.2 mm ± 0.1 mm
Operating Temperature	-25°C to +75°C (-13°F to +167°F)

I/O

Graphics	1 x HDMI 1.4
Ethernet	2 x 10/100/1000 Mbps Ethernet
USB	1 x USB 2.0 (Type-A) 3 x USB 3.2 Gen1
COM	2 x UART with TX/RX 2 x UART with TX/RX/RTS/CTS
I ² C	2 x I ² C interface
SPI	1 x SPI
GPIO	14 x GPIO
Audio	1 x I ² S
Camera Input	4 x CSI 4-lane 1 x CSI 2-lane
Security	1 x TPM 2.0 (optional)
PCIe	1 x PCIe Gen3 2-lane
SDIO	1 x SDIO

*Specifications and certifications may vary based on different requirements.

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