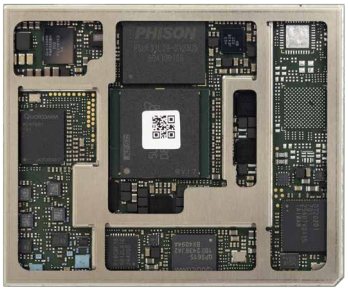
SoM-600

System on Module with Qualcomm® QCS6490 SoC



Feature

The Sysgration SoM-600 is a high-performance System on Module (SoM) built around the Qualcomm® Dragonwing QCS6490 SoC, offering outstanding computing power of up to 12 TOPS for AI workloads, along with exceptional power efficiency and processing performance. Engineered for next-generation AIoT applications, the SoM-600 is an ideal platform for developing handheld devices, industrial automation systems, service robots, rugged tablets, and edge computing solutions.

Designed to accelerate product development, the SoM-600 provides a rich set of hardware interfaces—including USB, PCIe, I2C, SPI, UART, and multiple display and camera inputs—enabling seamless integration with a wide range of peripherals. It supports rapid prototyping and functional validation by giving developers a ready-to-use computing core that reduces time-to-market.

Specification

Platform	Qualcomm® QCS6490 Qualcomm® Kryo CPU 670 Qualcomm® Adreno GPU 642L, Adreno 633 VPU, Adreno DPU 1075 Qualcomm® Compute Hexagon DSP with dual HVX, Hexagon Co-processor (Hexagon CP) 2.0 and Hexagon Tensor Accelerator Qualcomm® Spectra 570L image processing
Memory	8GB+128GB
AI Performance	12 TOPS
Video Encode	4K@30FPS for H.264/H.265
Video Decode	4K@60FPS for H.264/H.265/VP9
Display Interfaces	1x MIPI-DSI 4-lane ; FHD+ (1080x2520) 8L@144FPS ; 4K@60FPS display support over DisplayPort
Camera Interfaces	5 x 4-lane MIPI CSI D-PHY (2 of them compatible with 3-trio MIPI CSI C-PHY up to 48M camera)
Peripherals	1 x USB 3.1 with DP, 1 x USB 2.0 (Host Only), 1 x PCIe Gen3 2-lane, 1 x PCIe Gen3 1-lane, 2 x SoundWire, 1 x SDC for SD card, 3 x DMIC Interfaces, GPIOs, QUPs (UART/I2C/SPI)
Operating Environment	Operation Temperature: -25°C ~ +75°C Operation Humidity: 5%~95%, non-condensing
Mounting	Board to Board connector
Voltage	3.4V~4.5V, Typ. 3.8V
Dimensions	50mm x 33mm
OS Support	Android 14, Yocto Linux

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