

SoM-600

System on Module with Qualcomm® QCS6490 SoC



Feature

- **Powerful Processing:** Qualcomm® Kryo™ 670 CPU, Adreno™ 642L GPU, Hexagon™ DSP, and Spectra™ 570L ISP
- **Flexible Memory:** 6GB+128GB or 8GB+128GB configurations
- **High-Speed Connectivity:** Wi-Fi 6E (802.11ax), 2x2 MIMO, Bluetooth 5.2
- **Rich Multimedia Support:** 4K video encode/decode, FHD+@144FPS, 4K@60FPS display
- **Comprehensive I/O:** USB 3.1, PCIe Gen3, MIPI CSI/DSI, SD card, GPIO, UART/I2C/SPI

■ Specification

System	CPU	Qualcomm® Dragonwing™ QCS6490
	GPU	Qualcomm® Adreno™ 643L
	AI	12 INT8 TOPs
	RAM & Storage	8GB LPDDR5, 128GB eMMC
	OS	Android 14, Yocto Linux
Interfaces	Display	1 x DSI 4-lane, support up to 1200 × 2520 @144 fps 1 x DP over Type C
	Camera	5 x 4-lane MIPI CSI D-PHY
	Audio	2 x Sound Wire 3 x DMIC Interfaces
	Video	4K@60FPS for H.264/H.265/VP9 Decode 4K@30FPS for H.264/H.265 Encode
	USB	1 x USB 3.1 with DP ; 1 x USB2.0
	QUP	QUPs, SSC QUPs, IIC HUBs
	SDIO	1 x SDC for SD card
	Debug	1 x Debug UART
	PCIE	1 x PCIe Gen3 2-lane
	Antenna	No Support
	Wi-Fi	No Wi-Fi built-in
	Bluetooth	No Bluetooth built-in
Power	DC Input	3.4V ~ 4.5V, typ. 3.8V
Mechanical	Dimensions (W x D x H)	47.0 mm × 35.0 mm × 3.5 mm
	Form Factor	LGA
	Weight	13g
Environmental	Operating Temperature	-20°C to +75°C
	Storage Temperature	-40°C to +85°C