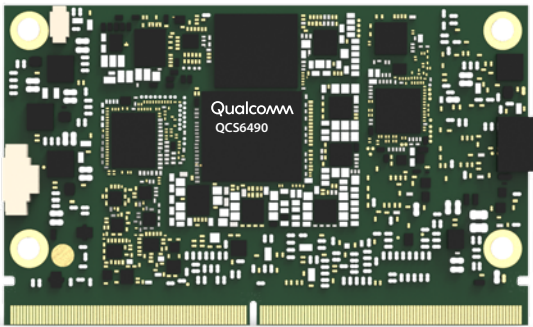


SMC-600 (Preliminary)

SMARC 2.2 Short Size Module with Qualcomm® QCS6490 SoC



Feature

- **Powerful CPU & GPU:** 8x Kryo 670 CPU (1.9 - 2.7 GHz) paired with Adreno 643 GPU for smooth processing and graphics rendering.
- **Large Memory & Storage:** 8 GB RAM and 128 GB internal storage for seamless multitasking and sufficient space for apps and media.
- **Advanced Connectivity Options:** Includes HDMI 2.0b (4K@60Hz), Wi-Fi 6 (802.11ax), Bluetooth® 5.2, and multiple USB (3.0 & 2.0), LAN, and PCIe interfaces for versatile connectivity.
- **Enhanced Camera & Display Support:** Dual CSI camera interfaces and MIPI DSI x1 support for high-quality imaging and display output.
- **Durable & Reliable Design:** IP40 ingress protection, operating temperature range from -20°C to 70°C, and humidity tolerance of up to 95% RH, ideal for rugged environments.

Specification

Processor	SoC	Qualcomm® QCS6490 Octa-Core @ 2.7 GHz
	Memory	8 GBytes LPDDR5
Video	GPU	Adreno GPU 643
	HDMI	HDMI 2.0b FHD@30fps
	MIPI	DSI x 1
	Camera	CSI x 2
System Storage	SDIO	4-bit x 1
	eMMC	128 GBytes
Audio	Audio	I ² S x 1
Ethernet	LAN	GbE x 2
Wireless	Wi-Fi	Wi-Fi 6 (802.11ax)
	Bluetooth	Bluetooth® 5.2
Extension	USB	USB 3.0 Host x 2, USB 2.0 Host x 2
	UART	4-wires x 2, 2-wires x 2
	CAN	CAN 2.0B x 1
	SPI	x 2
	I2S	x 1 (Audio Interface)
	I2C	x 5
	GPIO	x 14
	PCIe	PCIe Gen3 x 2
Power	Input	5Vdc +/- 5%
Environmental	Operating Temperature	-20°C ~ 70°C
	Humidity	95% RH
Operating System	Standard OS	Android/Linux

Block Diagram

