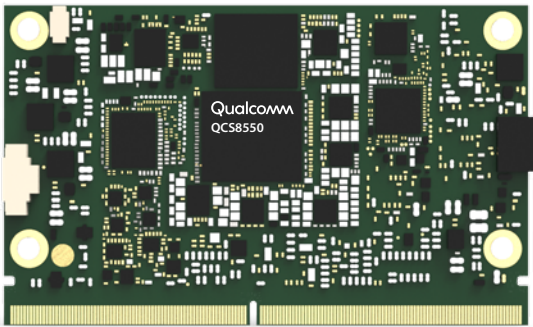


SMC-800 (Preliminary)

SMARC 2.2 Short Size Module with Qualcomm® QCS8550 SoC



Feature

- **High-Performance CPU & GPU:** 8x Kryo CPU (2.0 - 3.36 GHz) and Adreno GPU 740 for enhanced processing power and graphics performance.
- **Ample RAM & Storage:** 12 GB RAM with 128 GB internal storage, ensuring smooth multitasking and ample space for apps and data.
- **Multiple Connectivity Options:** Includes HDMI 2.0b (4K@60Hz), GbE LAN ports, Wi-Fi 7 (802.11be), Bluetooth® 5.3, and versatile USB, SPI, UART, and GPIO interfaces.
- **Advanced Camera and Display Support:** Dual CSI camera support and MIPI DSI x1 for high-resolution imaging and display capabilities.
- **Robust Durability:** IP40 ingress protection, operating temperature range of -20°C to 70°C, and humidity tolerance of up to 95% RH for harsh environments.

Specification

Processor	SoC	Qualcomm® QCS8550 Octa-Core @ 3.2 GHz
	Memory	12 GBytes LPDDR5
Video	GPU	Adreno GPU 740
	HDMI	HDMI 2.0b 4K@60 Hz
	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 7 (802.11be), 2.4 GHz and 5 GHz Bluetooth®5.4
	Bluetooth	Bluetooth® 5.3
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
Power	PCle	PCle Gen3 x 2
	Input	5Vdc +/- 5%
Environmental	Operating Temperature	-20°C ~ 70°C
	Humidity	95% RH
Operating System	Standard OS	Android/Linux

Block Diagram

