

SMC-800

SMARC 2.2 Short Size Module with
Qualcomm® Dragonwing™ QCS8550 SoC



Feature

- **High-Performance SoC:** 8x Kryo CPU Adreno 740 GPU, and 48 TOPS NPU for enhanced AI performance.
- **Ample RAM & Storage:** 16 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, 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

System	CPU	Qualcomm® Dragonwing™ QCS8550
	GPU	Qualcomm® Adreno™ 740
	AI	48 INT8 TOPS
	RAM & Storage	16GB LPDDR5x, 128GB UFS
	OS	Android 13, Yocto Linux
Interfaces	Display	1 x HDMI 4K@30fps, 1x MIPI-DSI
	Camera	4 x MIPI-CSI (on-Board); 2 x MIPI-CSI (Golden Finger)
	USB	2 x USB 3.0 Host, 2 x USB 2.0 Host
	Ethernet	2 x 10/100/1000Mbps Ethernet
	Serial Port	2 x 4-Wire UART, 2 x 2-Wire UART
	CAN Bus	2 x CAN FD and 2.0B
	SDIO	1 x SDIO
	PCIe	3 x PCIe Gen3 1-Lane
	I2C	5 x I2C, 2x I2S, 2 x SPland 14x GPIOs
	Wi-Fi	Wi-Fi 6 (optional)
Wireless Connectivity	Bluetooth	Bluetooth v5.3 (optional)
	Form Factor	SMARC Short Size Compatible
Mechanical	Dimension	82mm x 50mm
	Operating Temperature	-20°C to +85°C
Environmental	Storage Temperature	-40°C to +85°C

Block Diagram

