Sapphire Stream Technology

SQC5430W SOM



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SST SQC5430W SOM (System on Module) is integrated with Qualcomm® QCS5430 SoC, a 6nm processor with superior performance, power efficiency and powerful computing (~3.5 TOPS). It supports 4K@60FPS video decoding, 4K@30FPS video encoding, Wi-Fi 6E with DBS, Long Range Bluetooth, four MIPI CSIs, as well as a rich set of peripheral interfaces, including GPIO, UART, I2C, I3C, SPI, DSI, USB 3.1 and PCIe. SQC5430W SOM is a high performance AIoT SOM for building handheld devices, industrial robots, service robots, rugged tablet and edge computing, providing customers with hardware interfaces and software SDK to validate functions and build the prototype quickly.

Applications


Rugged Handheld

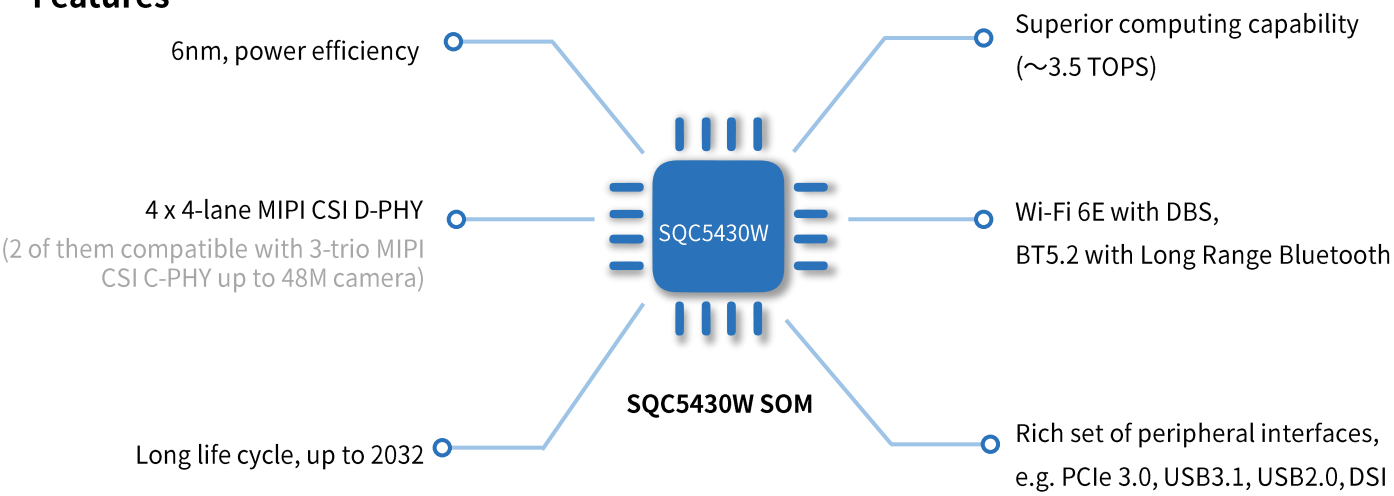

Rugged Tablet


Edge Computing


Service Robot


Industrial Robot

Features



Specifications

Category	SQC5430W
Platform	Qualcomm® QCS5430 FP1 as default Qualcomm® Kryo™ CPU 670 • Kryo Gold: Two high-performance cores at 2.1 GHz • Kryo Silver: Four low-power cores at 1.8 GHz Qualcomm® Adreno™ GPU 6xx, 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
Connectivity	802.11 ax over PCIe with DBS, 2x2 MIMO (Wi-Fi 6E), Bluetooth 5.2
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; 4K@30FPS via DSI; 4K@60FPS display support over DisplayPort
Camera Interfaces	4 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 USB2.0, PCIe (1x PCIe Gen3 1-lane, 1 x PCIe Gen3 2-lane), 2 x SoundWire, 2 x SDC (4bit), 3 x DMIC Interfaces, GPIOs, QUPs (UART/I2C/SPI)
Operating Environment	Operating Temperature: -25°C ~ +75°C [1)]
Form Factor	LGA
Certification	FCC/CE
Voltage	3.4V~4.5V, Typ. 3.8V
Dimensions	42.5mm x 35.5mm x 2.7mm
Operating System	Android 13

[1)]: The SOM operation temperature shall not exceed relevant IC temperature scope.

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