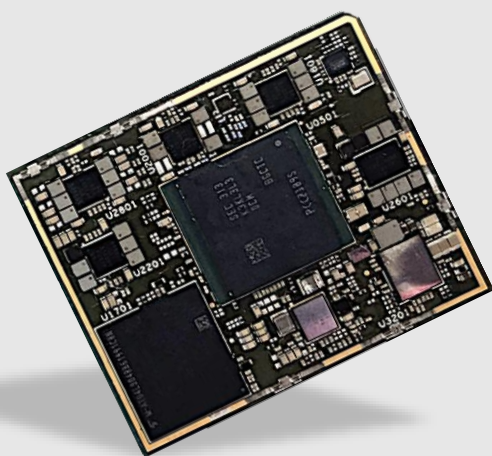


Aikri QCS8550 System On Module (SoM)

Based on the Qualcomm® QCS8550 SoC



- 1 AI and ML Applications
- 2 4K Camera
- 3 Telehealth / Medical
- 4 Collaboration
- 5 Machine Vision
- 6 Digital Signage / HMI
- 7 Video Conferencing Systems
- 8 Robotics
- 9 Telematics

About eInfochips

eInfochips, an Arrow Electronics company, is a leading provider of digital transformation and product engineering services. eInfochips accelerates time to market for its customers with its expertise in IoT, AI/ML, security, sensors, silicon, wireless, cloud, and power. eInfochips being a Qualcomm Snapdragon Technology Partner (STP) offers turnkey product designs on multiple Snapdragon and other SoCs of Qualcomm® and have enabled global customers with Qualcomm based product designs.

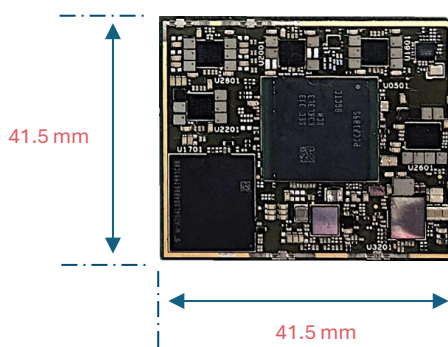
eInfochips Aikri QCS8550 SoM

The Aikri 8550 System on Module (SoM) is based on Qualcomm® QCS8550 System on Chip and delivers excellent heterogeneous computing, vivid graphics and video with optimized AI architecture for extreme edge AI processing. This LGA SoM integrates an ARM Cortex-X3 based Octa-Core Kryo™ CPU, Adreno™ 740 GPU, Hexagon™ DSP/HTP with HVX and HMX, Spectra™ ISP with cognitive triple 18-bit ISPs and onboard Wi-Fi 7 and Bluetooth 5.3 to provide very high edge AI processing capabilities with integrated connectivity in a compact form factor.

The Aikri 8550 LGA SoM enables OEMs and engineers to evaluate performance of QCS8550 for their next-gen designs while minimizing design risk factors and reducing design cycle time with early time to market.

eInfochips Advantages

- ✓ **28** Years of experience in system design
- ✓ **10** Design centers worldwide
- ✓ **500+** Product designs
- ✓ **35+** Product designs on Qualcomm
- ✓ **15M+** Product deployments across globe
- ✓ **ISO 9001, ISO13485, AS9100/EN9100, ISO26262** and **CMMi L3** compliant processes



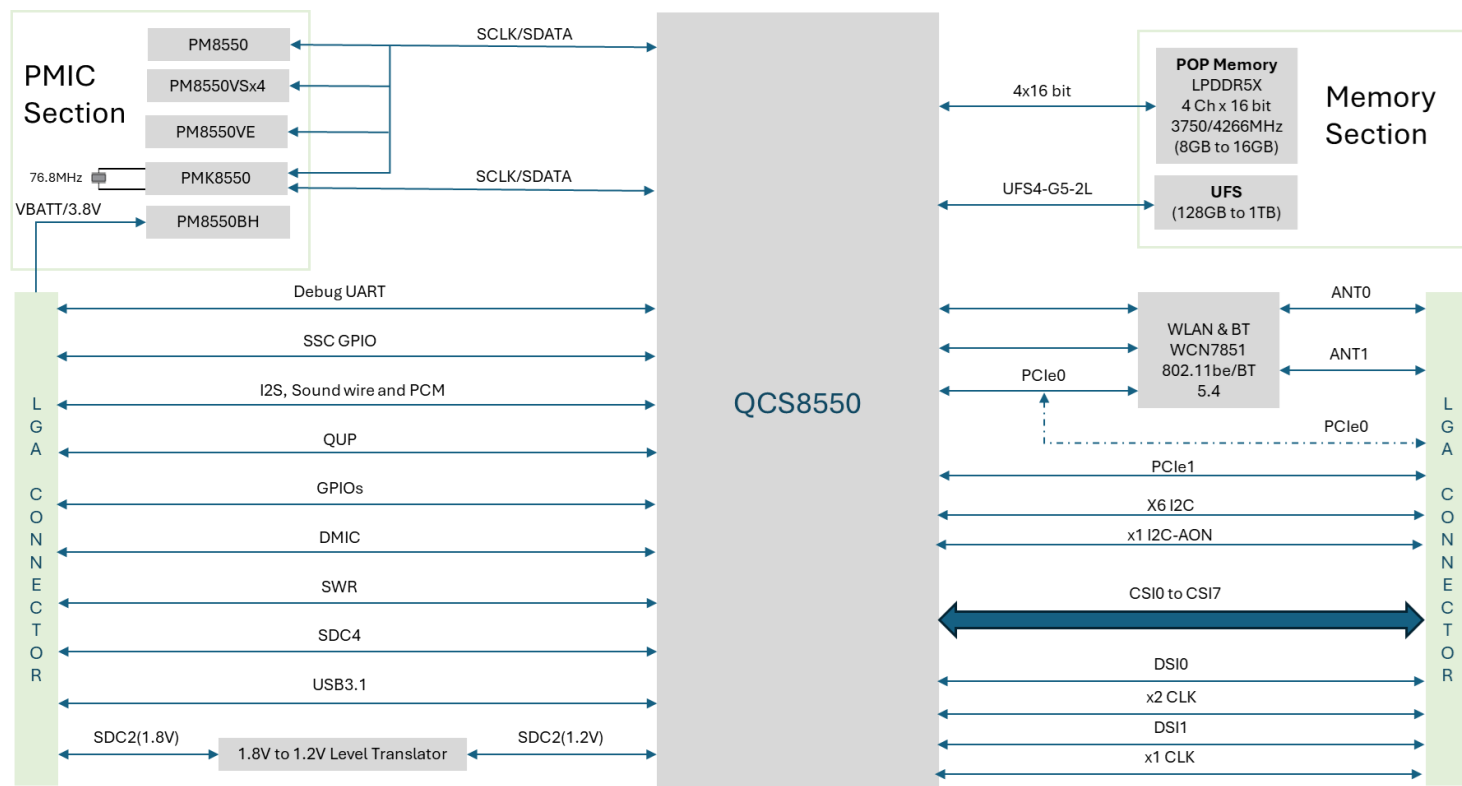
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Qualcomm





Aikri QCS8550 SoM		
Processors	Qualcomm® QCS8550 64-bit ARM Cortex-X3 compliant octo-core (1 prime + 4 gold + 3 silver) - Adreno™ 740 GPU capable of rendering 4K@120 fps UI, 8550 VPU for 4K Encode/decode and 1295 DPU for 4K render - Qualcomm® Hexagon™ Tensor Processor (HTP) with Hexagon Vector eXtensions(HVX) and Hexagon Matrix eXtensions(HMX) - Spectra™ ISP	
AI Performance (INT 8)	48 TOPS	
Memory	16GB LPDDR5, 256GB UFS.	
Wireless	- Qualcomm® Wi-Fi via WCN7851 WLAN 802.11be (WiFi 7); Bluetooth 5.3 2x UFL connector on SoM	
Display Interfaces	2x MIPI-DSI 4-lane - D-PHY 1.2 at 1.5 Gbps per lane; split link supported	
Camera Interface	6x MIPI-CSI 4-lane; 2x MIPI-CSI 2-lane - D-PHY 1.2 at 2.5 Gbps per lane supported; 6x CCI i2C. 3x IFE + 2x IFE Lite; Always-On	
Audio Interfaces	Soundwire, DMICs, MI2S	
I/O Interfaces	1x USB-C 3.1 with DP 1x PCIe 2-lane Gen4 - GPIOs, SPIs, I2Cs, I3C, UARTs; GPIO connections to sensor core DSP	
Operating Environment	Input voltage: 3.6V	Operating temperature: -25 to +85° C
Mechanical Specification	SoM: 41.5mm x 41.5mm LGA	
Software and OS	Linux, Kernel 5.15	Android 13
Orderable Parts	Linux	Android
	Aikri-85X-50LS-16-W – SOM with 16GB/256GB memory	Aikri-85X-50AS-16-W – SOM with 16GB/256GB memory



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