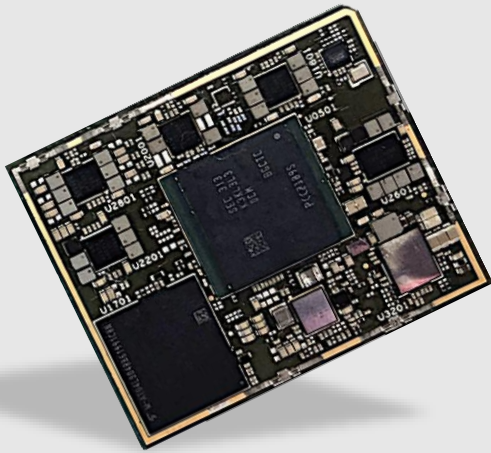


Aikri QCS8550 System On Module (SoM)

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.

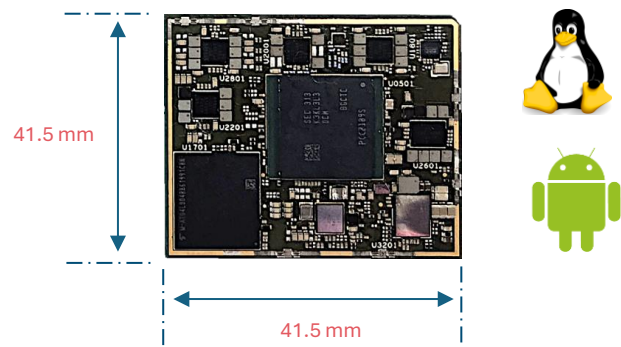
eInfochips Aikri QCS8550 SoM

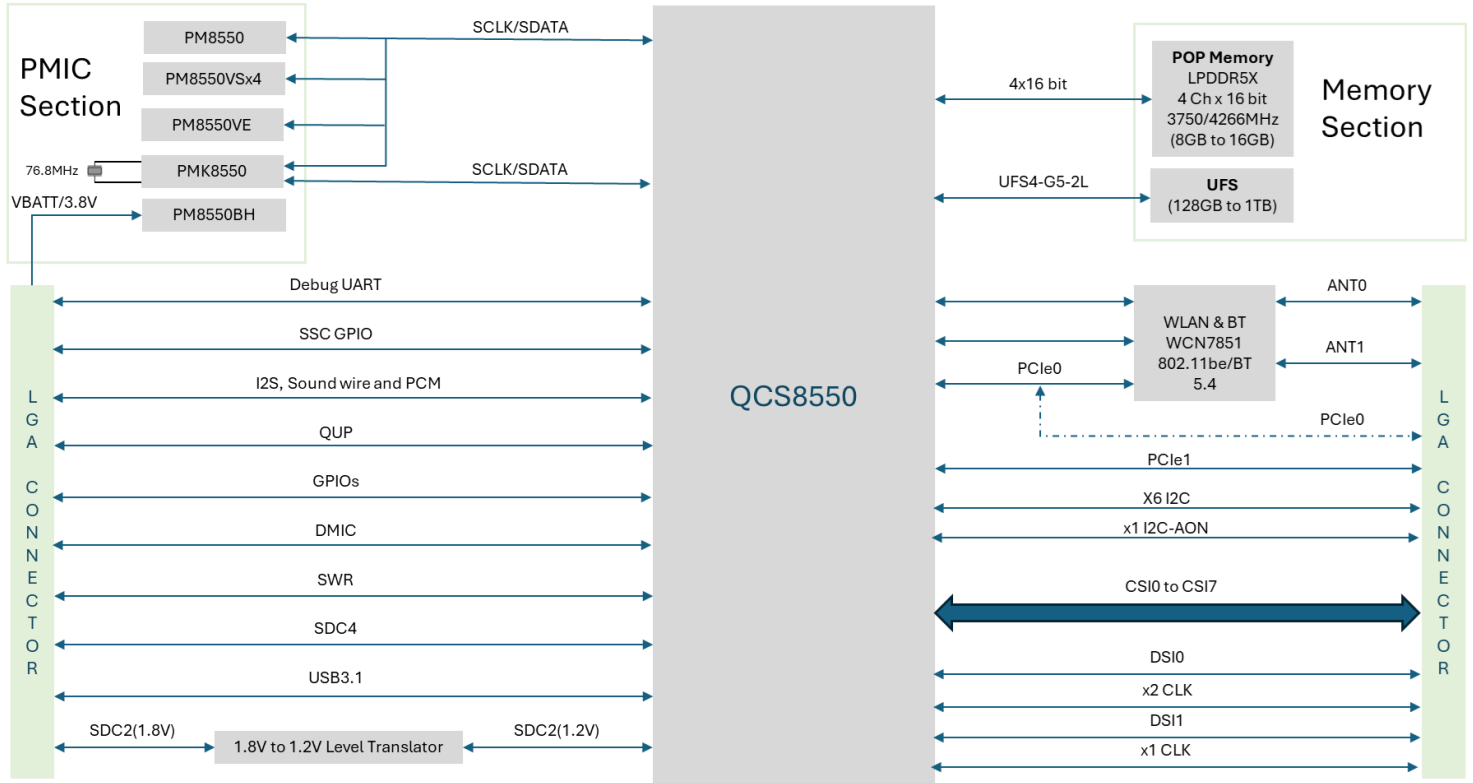
The Aikri 8550 System on Module (SoM) is based on Qualcomm® QCS8550 System on Chip and delivers excellent heterogeneous computing, vivid graphics and video with optimized AI architecture for extreme edge AI processing. This LGA SoM integrates an ARM Cortex-X3 based Octa-Core Kryo™ CPU, Adreno™ 740 GPU, 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





Aikri QCS8550 SoM	
Processors	Qualcomm® QCS8550 <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Soundwire, DMICs, MI2S
I/O Interfaces	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Input voltage: 3.6V Operating temperature: -25 to +85° C
Mechanical Specification	<ul style="list-style-type: none"> SoM: 41.5mm x 41.5mm LGA
Software and OS	<ul style="list-style-type: none"> Linux, Kernel 5.15 Android 13
Orderable Parts	<ul style="list-style-type: none"> Linux: Aikri-85X-50LS-16-W – SOM with 16GB/256GB memory Android: Aikri-85X-50AS-16-W – SOM with 16GB/256GB memory



einfochips



einfochipsindia



einfochips



einfochipsLtd

Qualcomm Adreno and Qualcomm Quick Charge are products of Qualcomm Technologies, Inc. Qualcomm, Snapdragon, Adreno and Quick Charge are trademarks of Qualcomm Incorporated, registered in the United States and other countries. Used with permission. einfochips reserves the right to make changes to the information, text, graphics or other items contained within this material at any time, without any prior notice. einfochips will make their best effort, however cannot commit to keep this material up-to-date. To be assured that you have the latest material, you are encouraged to contact sales@einfochips.com. All brands, logos, product names and service names are trademarks or registered trademarks of their respective companies or organizations



einfochips.com



marketing@einfochips.com

Qualcomm

