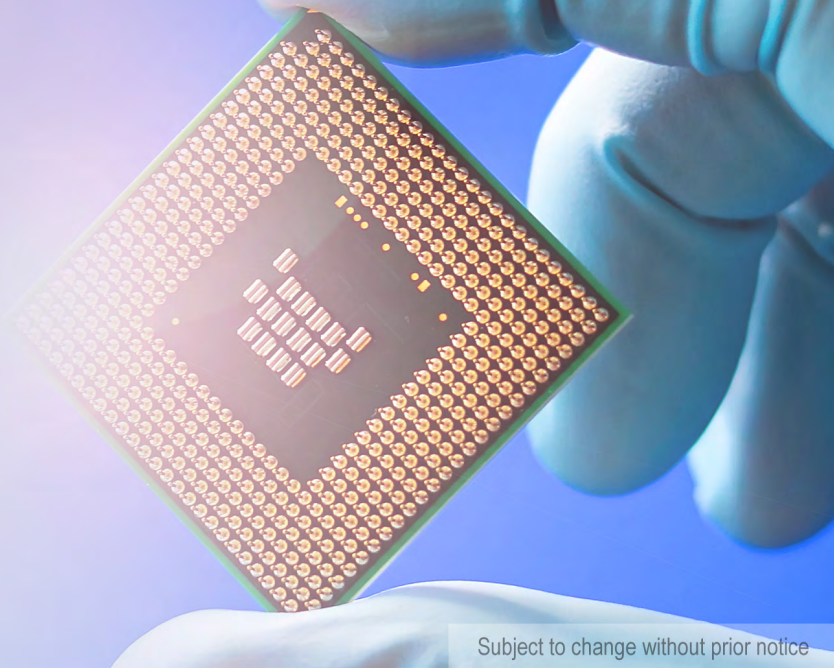


# Aikri QCS8550 Development Kit

Based on the Qualcomm® QCS8550 SoC



Subject to change without prior notice

## About eInfochips

eInfochips is product engineering services company offering technology consulting and product design services in multiple industry verticals like aerospace & defence, security and surveillance, medical and healthcare, industrial and home Automation, consumer electronics and more.

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 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

## eInfochips Aikri QCS8550 Dev Kit

eInfochips Aikri QCS8550 development kit is based on Qualcomm® QCS8550 System on Chip and delivers greater performance, better graphics, and broader connectivity options.

QCS8550 integrates a 64-bit Octa-Core application processor at 3.2 GHz (Gold+), 2.8GHz (4 x Gold), 2.0GHz (3 x Silver) Qualcomm® Kryo™ CPU, Qualcomm® Adreno™ GPU 740, Qualcomm® Hexagon™ Tensor Processor (HTP) with Hexagon Vector eXtensions (HVX) and Hexagon Matrix eXtensions (HMX), Qualcomm® Secure Processing Unit for advanced secure use cases, Low Power AI (LPAI) subsystem with dedicated DSP and AI accelerator (eNPU) supporting always-on audio, sensors, contextual data streams, and Always-on camera.

QCS8550 development kit 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.

**Autonomous Mobile Robots**

**Industrial Drones**

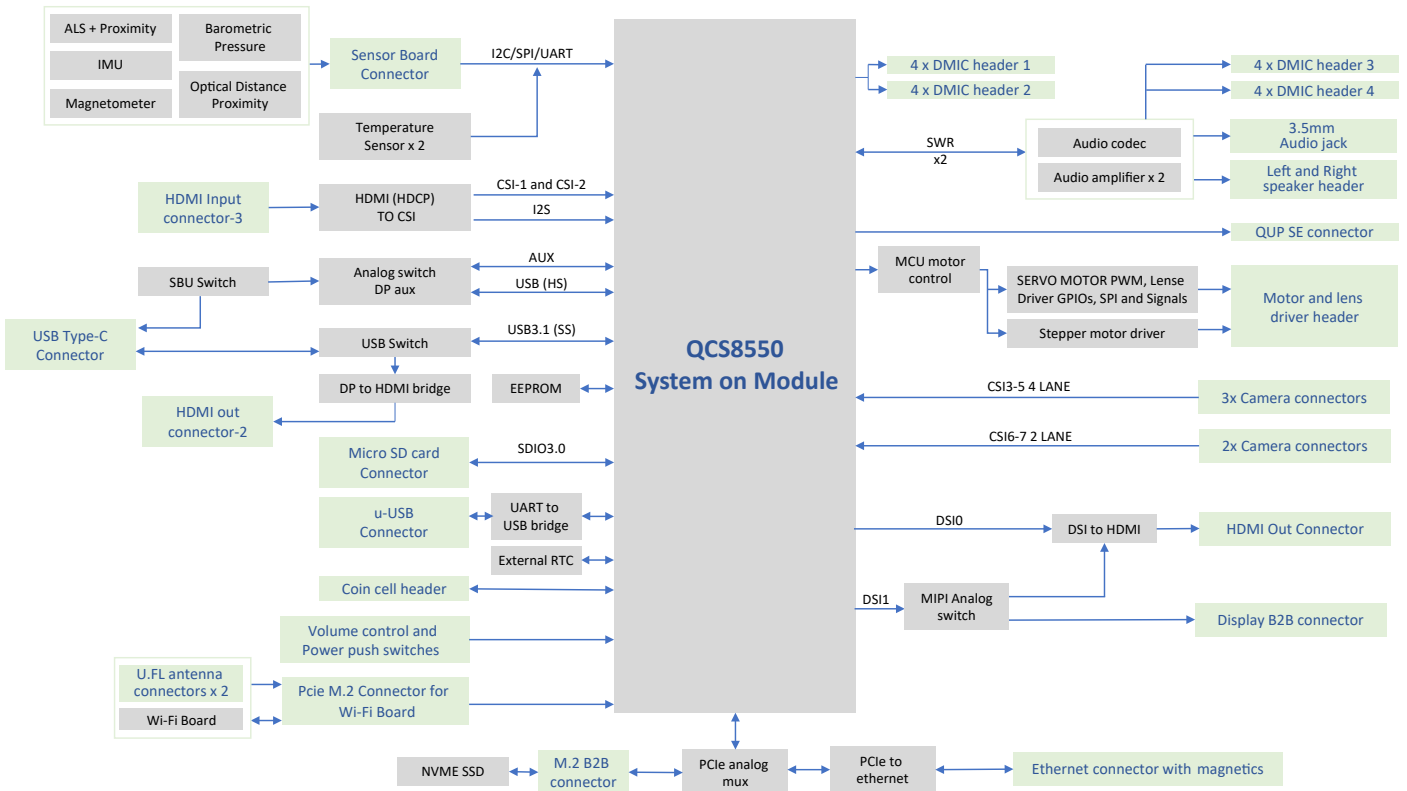
**Retail**

**Camera**

**Video Collaboration**

**Edge AI Gateways**

**Cloud Gaming**



Preliminary specification – subject to change

### System on Module (SoM)

einfochips Aikri-85X-50AS-8 based on Qualcomm® QCS8550.

### CARRIER BOARD

#### Display interfaces

- 10.1inch display up to 1920x1200p.
- DSI to HDMI (LT9611UXC) bridge chip - video and audio OUT.
- DP to HDMI (LT8711UXC) bridge chip – video and audio OUT
- USB type C to DP – video and audio OUT

#### Camera interfaces

- 2x 4-lane CSIs & 2x 2-lane CSIs
- D-PHY1.2| 2.5 Gbps/lane
- HDMI to CSI LT6911UXC bridge chip – video and audio IN.

#### Audio interfaces

- 1x Headset Jack
- 2x SWR speaker connectors
- HDMI Audio out
- Audio over Bluetooth
- 8x2 PDM DMIC for audio capture

### Sensor interfaces

- ALS + Proximity Sensor
- IMU Sensor
- Magnetometer Sensor
- Barometric Sensor
- Optical proximity Sensor
- 2 x Temperature Sensor

### I/O interface

- 1x USB 3.1 Type C
- 1x MicroSD Card
- 1x MicroUSB for debug Console
- Volume and power buttons
- Motor and lens driver control
- 1 x 10/100/1000 Mbps ethernet connector

### PCIe Interface

- PCIe0 M.2 Key connector (Wi-Fi add on board)
- PCIe1 to Ethernet connector
- PCIe1 M.2 Key connector (NVMe SSD)

### Operating environment

- Input Voltage: 12V
- Operating temperature: -20 to +60°

### Mechanical Specification

- Carrier Board: 160x75mm
- SOM Board: 40x33mm LGA formfactor

### Operating system

- Android 13.0

### Kit Contents

- 1x Aikri QCS8550 SOM
- 1x Carrier Board
- 2x DMIC Board
- 1x Sensor Board
- 2x Camera Board
- 1x Quick start guide

### Orderable Part

- Development kit: Aikri-85X-50AD-8

eInfochips, an Arrow company, is a leading global provider of product engineering and semiconductor design services. With over 500+ products developed and 40M deployments in 140 countries, eInfochips continues to fuel technological innovations in multiple verticals. The company's service offerings include digital transformation and connected IoT solutions across various cloud platforms, including AWS and Azure.

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