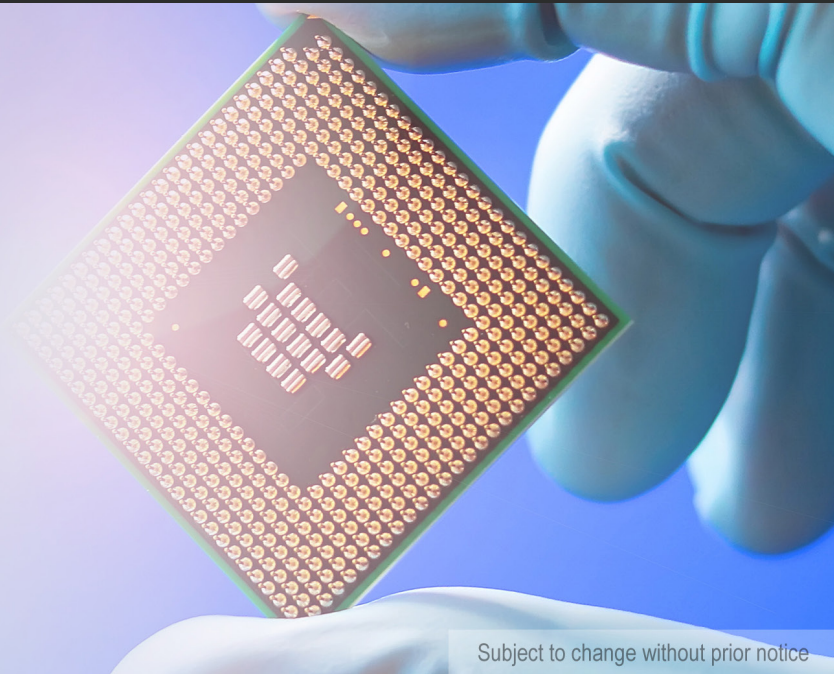


# Aikri 6490 Video Collaboration Development Kit

Based on the Qualcomm® QCS6490 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 6490 VC Dev Kit

The Aikri 6490 video collaboration dev kit is Powered by Qualcomm®'s QCS6490 based Aikri System on Module. This SoM integrates Qualcomm® Kryo™ 670 CPU, Adreno™ 643 GPU, Hexagon™ DSP with dual HVX, Hexagon CP2.0 and Hexagon Tensor Accelerator, Spectra™ ISP 570L and Qualcomm's 6th gen AI Engine to deliver premium-tier features for compute intensive camera and AI applications on the edge at low-power and with enhanced security.

The Aikri 6490 SoM, coupled with 2x2 802.11ax WiFi-6E, BT 5.2, full featured USB-C interfaces with UHD display capability and high-fidelity audio provide unparalleled video processing capabilities at up to 4K60 decode/4K30 encode on the VC dev kit, to enable OEMs and engineers to create next-gen designs with the shortest turnaround time, while minimizing design risk factors.

Transportation & Logistics

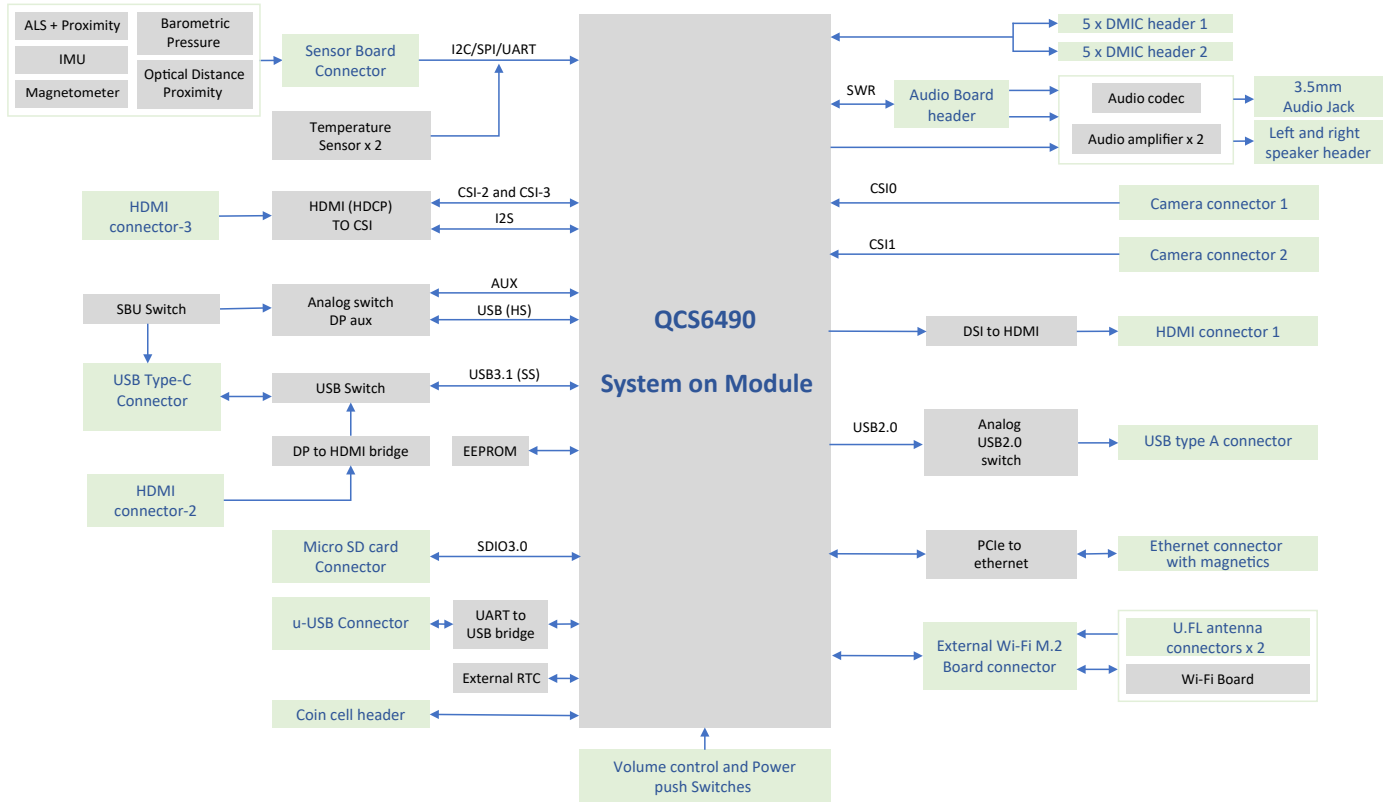
Smart Warehousing

Retail

Manufacturing

Healthcare

Ecommerce



Preliminary specification – subject to change

### System on Module (SoM)

eInfochips Aikri-64X-90AS-8 based on Qualcomm® QCS6490.

### CARRIER BOARD

#### Display interfaces

- HDMI-Out-1 V1.4 port up to 1080p@60fps with audio or 40 pin MIPI-DSI 4-lane port up to 1920x1200p with audio
- HDMI Out-2 port up to 4K@60fps with audio

#### Camera interfaces

- 2x 4-lane MIPI-CSI D-PHY V1.2 ports
- HDMI Input port up to 4K@30fps.

#### Audio interfaces

- 1x Headset Jack
- 2x I2S Speaker connectors
- 2x SWR speaker connectors
- HDMI Audio out
- Audio over Bluetooth
- 5x2 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 Console
- Volume and power buttons
- Motor and lens driver control
- 1 x USB 2.0 Type A
- 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 (5G LTE board)

### Operating environment

- Input Voltage: 12V5A
- Operating temperature: -20 to +60° C

### Mechanical Specification

- Carrier Board: 250x75mm
- SOM Board: 65x40mm

### Operating system

- Android 13.0

### Kit Contents

- 1x Aikri QCS6490 SOM
- 1x Carrier Board
- 1x Audio Board
- 2x DMIC Board
- 1x Sensor Board
- 2x Camera Board
- Accessories (Power adapter and USB cable)

### Orderable Part

- Aikri 6490 VC Dev Kit: Aikri-64X-90AD-8-1

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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