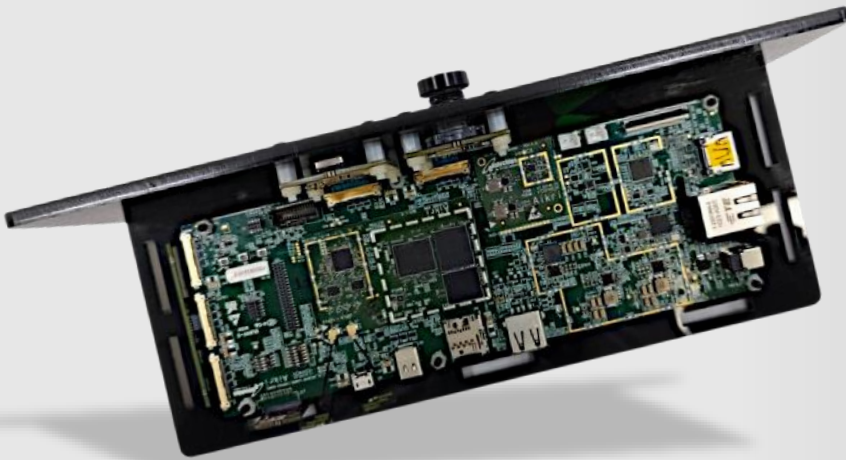


Aikri 6490 Smart Camera Development Kit

Based on the Qualcomm® QCS6490 SoC



- 1 Smart Camera
- 2 Smart Warehousing
- 3 Retail
- 4 Video collaboration
- 5 Healthcare
- 6 Robotics and Drones

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.

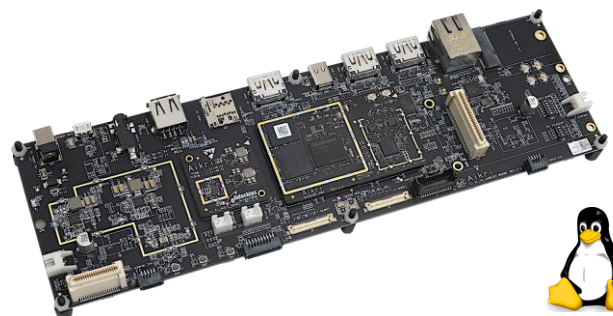
eInfochips Aikri 6490 Smart camera Dev Kit

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

The Aikri 6490 SoM, coupled with 802.11ax WiFi-6E, BT 5.2, multiple camera and display interfaces provide concurrent processing capabilities of multiple video streams up to 4K60 decode/4K30 encode to enable smart camera use-cases on this dev kit. The Aikri 6490 dev kit enables OEMs and engineers to evaluate performance of QCS6490 and create next-gen designs with the shortest turnaround time, while minimizing design risk factors

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

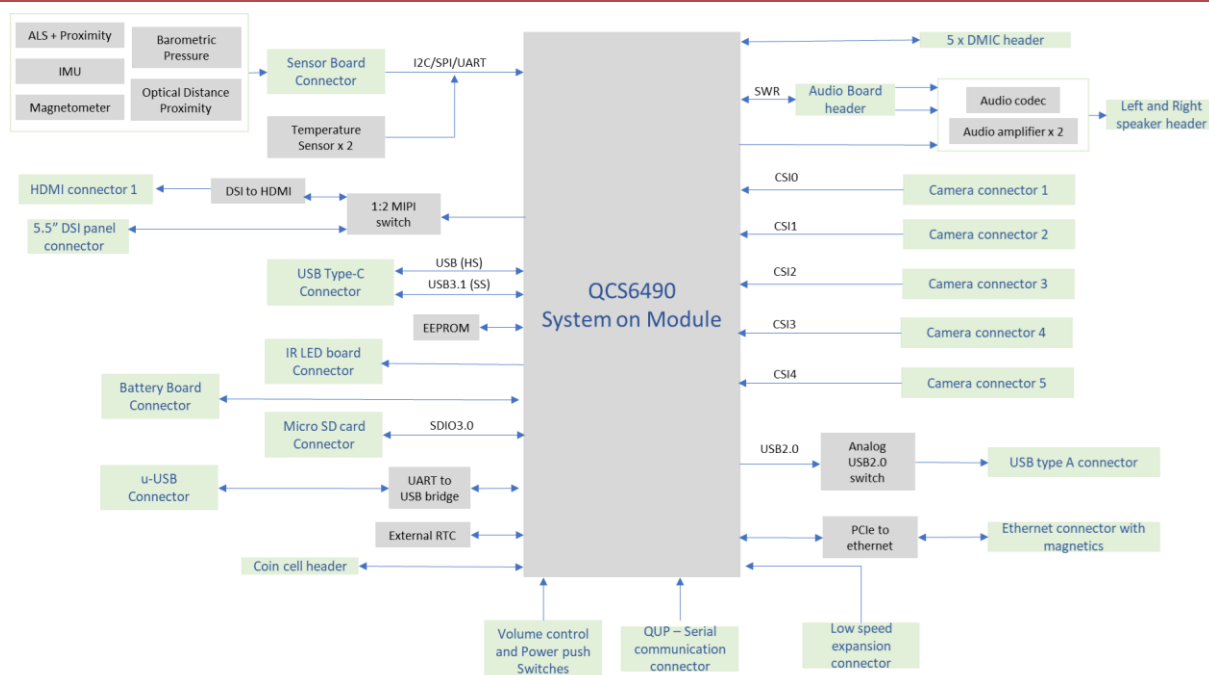


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Qualcomm





Aikri QCS6490 SoM

Processors	8x Arm v-8 Kryo™ 670 CPU @ up to 2.7 GHz, Hexagon DSP with HVX and HTA, Adreno™ 643 GPU and 1075 DPU, and Spectra™ 570L ISP
Memory	8GB LPDDR5, 128GB UFS
Wireless	Qualcomm® Wi-Fi via WCN6856 WLAN 802.11ax (WiFi 6E); Bluetooth5.2
AI Performance (INT 8)	13 TOPS

Aikri QCS6490 Dev Kit

Display Interfaces	<ul style="list-style-type: none"> 1x HDMI Out port (DSItoHDMI) – 1080p@60 1x 4-lane MIPI-DSI D-PHY 1.2
Camera Interface	<ul style="list-style-type: none"> 5x 4-lane CSIs on 30-pin connectors - IMX476 on CSI0 and IMX586 on CSI1
Sensor Interface (Sensor board)	<ul style="list-style-type: none"> IMU Sensor Barometric Pressure Sensor PCBA Temperature Sensor Magnetometer Sensor Ambient Light Sensor
Audio Interfaces	<p>Input:</p> <ul style="list-style-type: none"> 5x PDM DMICs for audio capture. 3.5mm Audio headset jack (WCD9375 Codec). Bluetooth Audio Capture. MI2S Interface <p>Output:</p> <ul style="list-style-type: none"> Stereo WSA Speaker output (Audio Daughter Board). 3.5mm Audio headset jack (WCD9375 Codec). Stereo External MI2S Audio Amplifier Bluetooth Audio playback MI2S interface Audio out over HDMI out (DSI to HDMI bridge chip).
I/O Interfaces	<ul style="list-style-type: none"> 2x UARTs(debug and WCN6856 WiFi) 1x MicroSD Card I2C, SPI, GPIOs 1x USB-C, 1x USB Type A, 1x USB Micro B 1x 10/100/1000 Mbps RJ45 Ethernet (PCIe to LAN) 3x User LEDs Battery connector 1x RTC
Operating Environment	<ul style="list-style-type: none"> Input voltage: 12V Operating temperature: -20 to +60° C
Mechanical Specification	<ul style="list-style-type: none"> SoM: : 65mm x 40mm x 4mm*/5.41mm# with 4x 90-pin board to board connectors *Stacking height #Standalone height Carrier board : 210mm x 75mm
Software and OS	Ubuntu Linux Kernel v5.4.233
Dev Kit Contents	<ul style="list-style-type: none"> 1x Aikri-64X-90LS-8 SoM 1x Carrier board 2x Camera modules with cables, 1x Sensor board, 2x DMIC boards 12V power adapter; USB cable
Orderable Parts	<ul style="list-style-type: none"> Aikri Smart camera Development kit: Aikri-64X-90LD-8-1



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