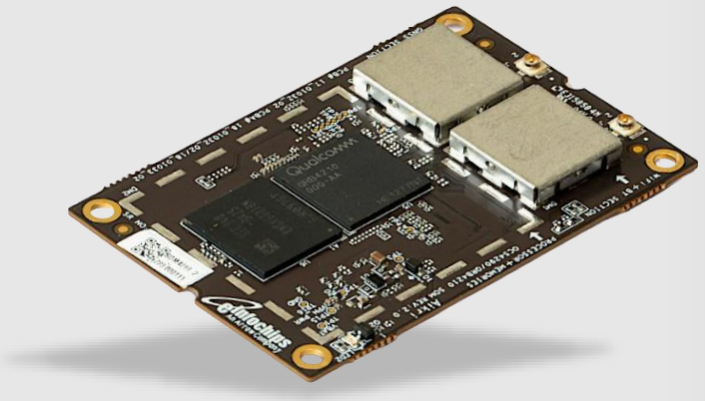
Aikri QRB4210 System On Module (SoM)

Based on the Qualcomm® QRB4210 SoC



1. Surveillance Cameras
2. Robotics
3. Industrial Handhelds
4. Telehealth / Medical Devices
5. Digital Signage / HMI
6. Security Panels

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.

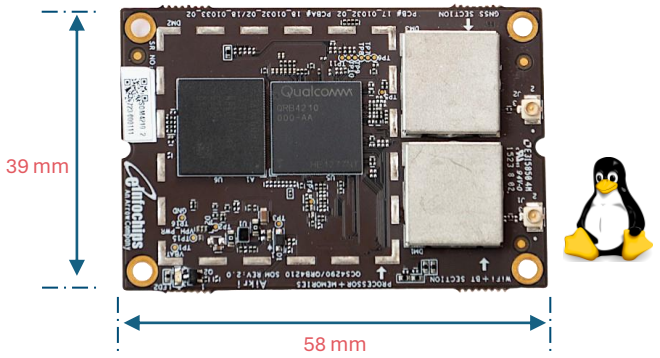
eInfochips Aikri QRB4210 SoM

The Aikri 4210 System on Module (SoM) is based on the Qualcomm® QRB4210 processor. This SoM integrates a 64-bit Octa-Core Qualcomm® Kryo™ 260 application processor (Quad Gold cores operating at 2.0 GHz and Quad Silver cores at 1.8 GHz), Hexagon™ DSP, Adreno™ 610 GPU, and Spectra™ 340T image signal processor to provide a cost-effective module that delivers greater performance, improved graphics, and better-quality images .

The Aikri 4210 SoM has onboard calibrated 802.11ac 1x1 Wi-Fi and Bluetooth 5.0 and offers secure connections. It enables OEMs to use a readily available design solution for their next-gen products, 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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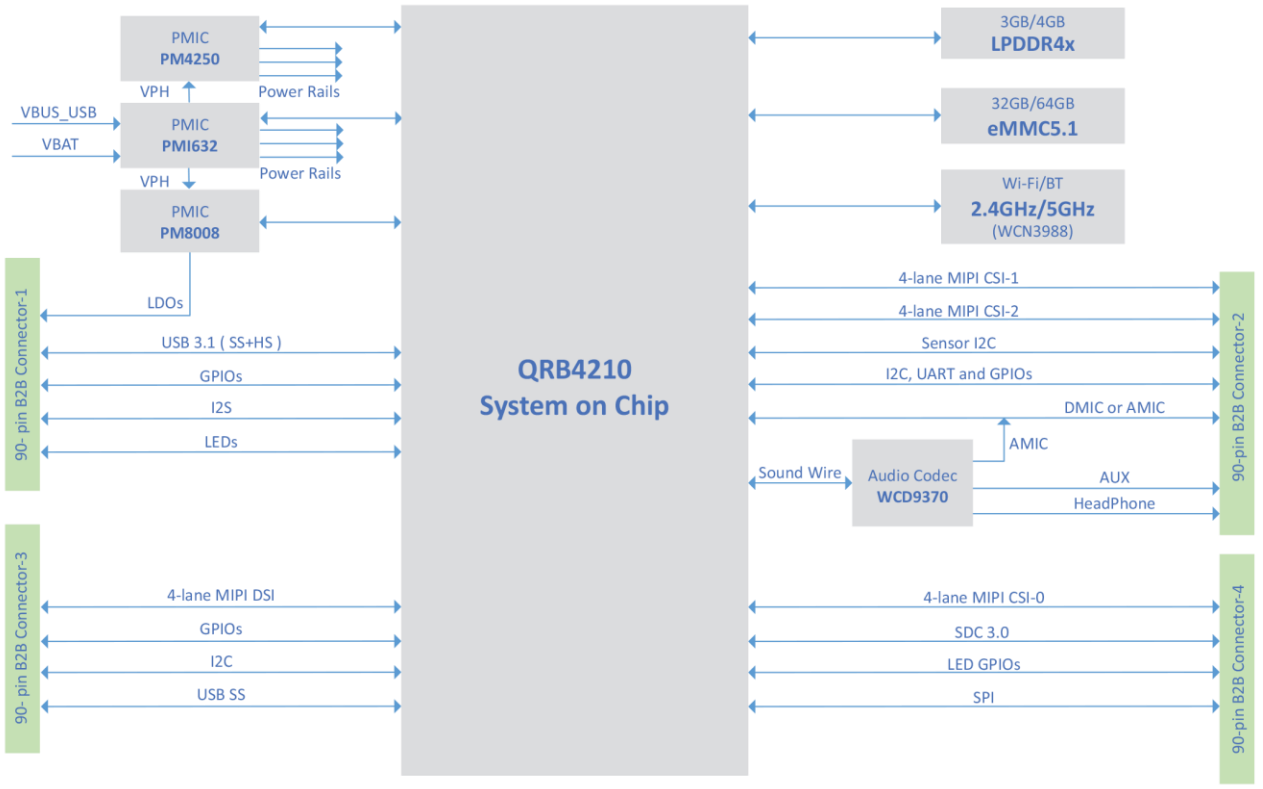

Aikri QRB4210 SoM		

Processors	Qualcomm® QRB4210
	• 64-bit Octa-core Kryo™ 260
	  • Quad high-performance Gold cores at 2.0 GHz with 1 MB L2 cache
	  • Quad low-power Silver cores at 1.8 GHz with 512 KB L2 cache
	• Dedicated Hexagon™ Dual HVX compute DSP
	• Integrated low- power island (LPI) DSP, shared between sensors and audio for always-on functionality
	• Adreno™ 610 GPU at 950 MHz with 64-bit Addressing
	• Spectra™ 340T ISP	

Memory	3GB LPDDR4x, 32GB eMMC	
Wireless	• Qualcomm® Wi-Fi via WCN3988 WLAN 1 × 1 802.11ac; Bluetooth5.1 • 1x UFL connector on SoM	
Display Interfaces	1x MIPI-DSI 4-lane - D-PHY 1.2 at 1.5 Gbps per lane; split link supported	
Camera Interface	• 3x MIPI-CSI 4-lane - D-PHY 1.2 at 2.5 Gbps per lane supported. • 3× ISP (13 MP + 13 MP or 25 MP + 5 MP) at 30 fps ZSL	
Audio Interfaces	• 1x MI2S Port • 2x Tx and 2x Rx data lines SoundWire interface for PM4125 PMIC codec • Stereo channel headset support from PM4125 PMIC codec • 1x SLIM bus port interface to WCN3950 BT audio • Analog out (AUX_OUT) lines (1x pair) from PM4125 PMIC codec to RUN WSA8815 speaker amplifier.	
I/O Interfaces	• 1x USB-C 3.1 • GPIOs, SPIs, I2Cs, I3C, UARTs; GPIO connections to sensor core DSP	
Operating Environment	• Input voltage: 3.6V	• Operating temperature: -30 to +85° C
Mechanical Specification	• SoM: 58mm x 39mm x 4mm*/5.41mm# with 4x 90-pin board to board connectors *Stacking height #Standalone height	
Software and OS	• Linux, Yocto Dunfell, Kernel 5.4	
Orderable Parts	• System On Module (SOM): Aikri-42X-10LS-3 • Development kit: Aikri-42X-10LD-3 • Camera interface card: EIC-DB-CAM-OVS (camera sensors not included)	