Aikri QCS610 Development Kit







About elnfochips

elnfochips, an Arrow Electronics company, is a leading provider of digital transformation and product engineering services. elnfochips accelerates time to market for its customers with its expertise in IoT, AI/ML, security, sensors, silicon, wireless, cloud, and power. elnfochips 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 QCS610 Development Kit

The Aikri 610 Development Kit is based on Qualcomm[®] QCS610 based Aikri System on Module(SoM). This SoM integrates Kryo[™] 460 CPU, Adreno[™] 612 GPU, Hexagon[™] 685 DSP, AI Engine and the Spectra[™] 230 camera ISP to enable advanced on-device camera processing and machine learning with very good thermal efficiency. The Aikri 610 SoM coupled with features like Ethernet RGMII, calibrated 802.11nac Wi-Fi signal strength, Haptics, Bluetooth 5.x and location enables OEMs and engineers to create advanced camera designs quickly, while minimizing design risk factors.

The Aikri 610 Development Kit enables OEMs and engineers to evaluate performance of QCS610 for their product designs and reduce time to market.

eInfochips Advantages

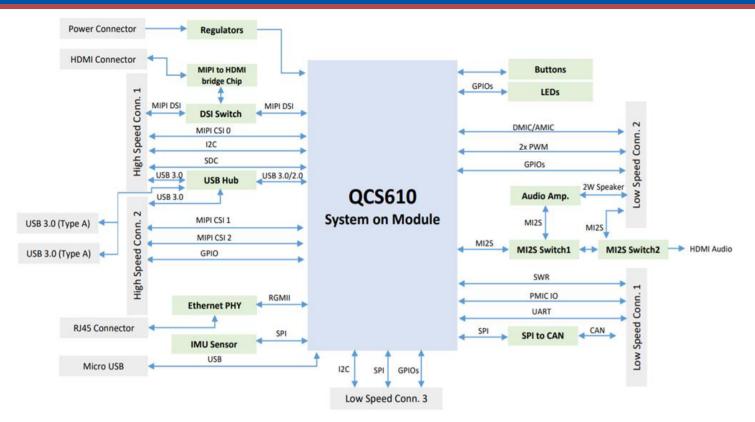
- Years of experience in system design
- 10 Design centers worldwide
- 500+ Product designs
- ✓ 35+ Product designs on Qualcomm
- 15M+ Product deployments across globe
- ✓ ISO 9001, ISO13485, AS9100/EN9100,
 ISO26262 and CMMi L3 compliant processes





Aikri QCS610 Development Kit

Based on the Qualcomm® QCS610 SoC



Aikri QCS610 SoM	
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Processors	8x 64-bit Kryo ARM® V-8 compliant CPU @2.2/1.8GHz each, Adreno™ 612 GPU, Hexagon™ 685 DSP with dual-HVX@1.1GHz		
Memory	4GB LPDDR4x, 16GB eMMC		
Wireless	 Qualcomm® Wi-Fi via WCN3980 WLAN 2 × 2 802.11ac; Bluetooth5.0 Ethernet RGMII 		
Al Performance (INT 8)	• 1.5 TOPS		
Location	GPS, GLONASS, Galileo and Beidou via SDR660		
Aikri QCS610 Dev Kit			
Display Interfaces	 HDMI[™] out with audio up to 1080p@60 fps 	1x4 lane DSI DPHY 1.2 support	
Camera Interface	3x 4-lane CSIs on high-speed expansion connector		
Sensor Interface	 1x IMU sensor (SPI based) 1x Compass sensor 	 1x Pressure sensor 1x Temperature sensor 	
Audio Interfaces	 7x PDM MICs from WCD9341 codec 6x TDM MICs 	 2x Speaker Output from WCD9341 codec 2x Speaker output (I2S amplifiers) HDMI - audio out (I2S) 	
I/O Interfaces	 3x USB 3.1 Type-A ports; 1x USB 2.0 Type-B port 1x MicroSD Card 1.5x UARTs, 2x I2C, 2x MI2S, 2x SPI, 29x GPIO's (low speed expansion connector) 	 1x 10/100/1000 Mbps RJ45 Ethernet 6x User LEDs Battery connector 1x CAN (SPI to CAN) 	
Operating Environment	Input voltage: 12V	• Operating temperature: -20 to +60° C	
Mechanical Specification	SoM: 58mm x 39mm with 4x 90-pin board to board connectors	Carrier board and Mezzanine board: 85mm x 54mm, 96board CE specification dimensions with headers	
Software and OS	Android; Linux		
Dev Kit Contents	 1x Aikri-X10-6S-4 SoM 1x Carrier board 	 1x Mezzanine board 12V power adapter; USB cable 	
Orderable Parts	Development kit: Aikri-X10-6D-4 Camera interface card: EIC-DB-CAM-OVS (camera sensors not included)		

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