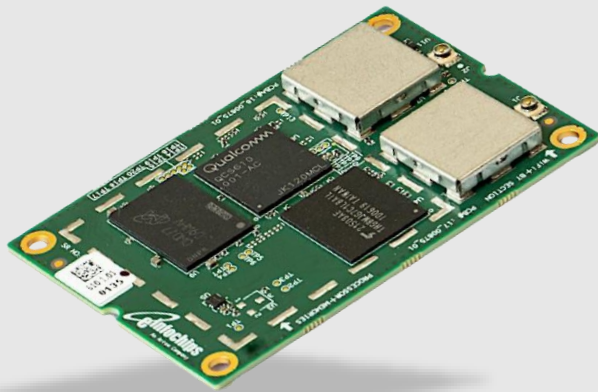


Aikri QCS610 System On Module (SoM)

Based on the Qualcomm® QCS610 SoC



- 1 Enterprise Security Cameras
- 2 IP Cameras
- 3 Dash Cam and Body Cam
- 4 Audio/Video Collaboration
- 5 Home/Industrial Automation
- 6 Tele-diagnostics
- 7 Smart Display, Videoconferencing
- 8 Industrial IoT

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.

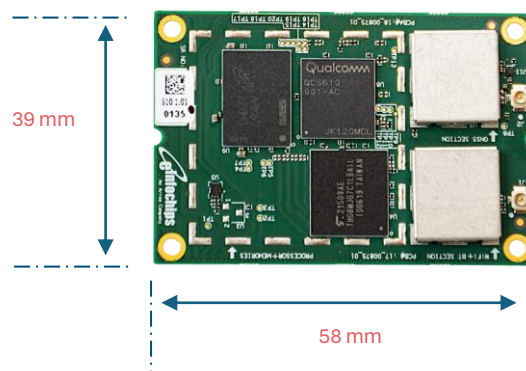
eInfochips QCS610 SoM

The Aikri 610 System on Module (SOM) is based on the Qualcomm® QCS610 processor. 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 use a readily available design solution and create advanced camera designs quickly, 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



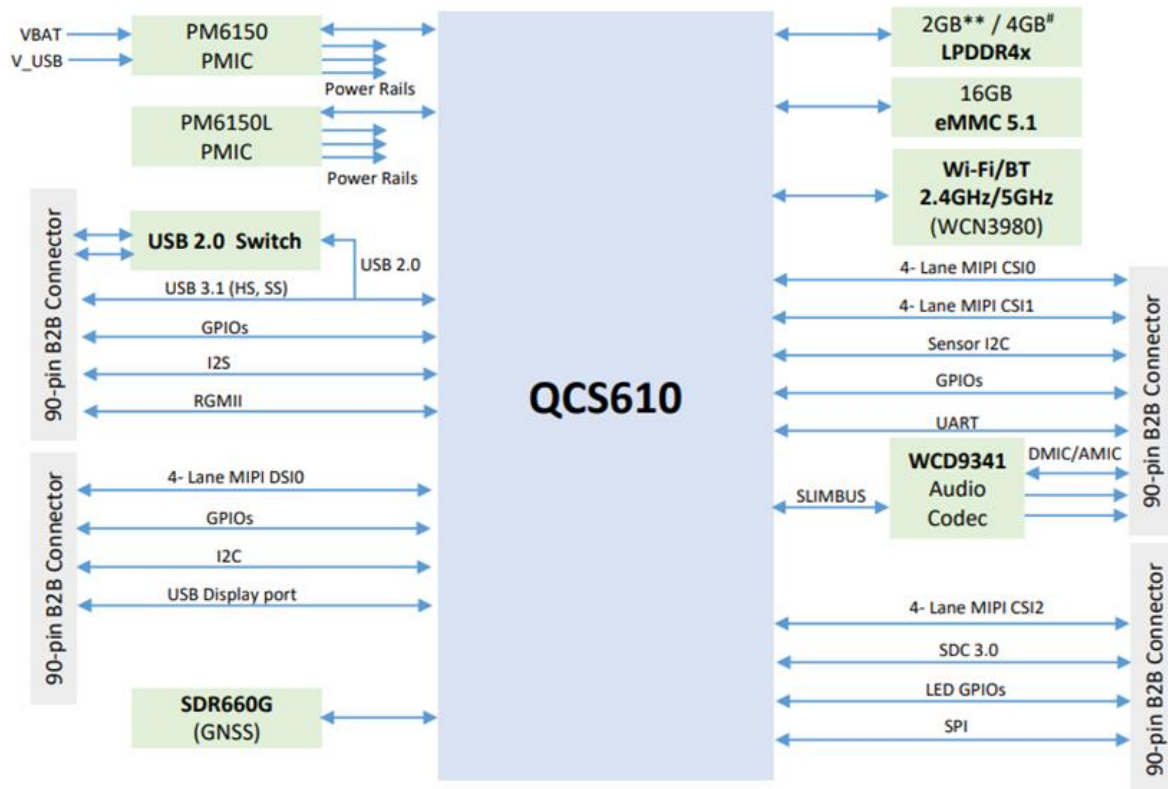
einfochips.com



sales.support@einfochips.com



ENRICHING LIVES
THROUGH
ENGINEERING
EXCELLENCE



Aikri QCS610 SoM	
Processors	Qualcomm® QCS610 <ul style="list-style-type: none"> 64-bit Kryo ARM® V-8 compliant CPU @2.2/1.8GHz each Adreno™ 612 GPU at 845 MHz with 64-bit addressing Hexagon™ DSP with dual HVX @1.1 GHz, for machine learning, integrated DNN and SNPE framework Spectra™ 250L ISP
Memory	4GB LPDDR4x, 16GB eMMC
Wireless	<ul style="list-style-type: none"> Qualcomm® Wi-Fi via WCN3980 WLAN 2 × 2 802.11ac; Bluetooth5.0 (1x UFL connector on SoM) Ethernet RGMII
Display Interfaces	1x MIPI-DSI 4-lane - D-PHY 1.2 at 1.5 Gbps per lane; split link supported
Camera Interface	<ul style="list-style-type: none"> 3x MIPI-CSI 4-lane - D-PHY 1.2 at 2.5 Gbps per lane supported. 2 × ISP (13 MP + 13 MP or 25 MP) at 30 fps ZSL
Location	Standalone, GPS, GLONASS, BDS, NAVIC, QZSS, SBAS and GALILEO based on WGR7640
Audio Interfaces	<ul style="list-style-type: none"> 7x PDM MICs from WCD9341 codec 2x Speaker Output from WCD9341 codec
I/O Interfaces	<ul style="list-style-type: none"> 1x USB-C 3.1 GPIOs, SPIs, I2Cs, I3C, UARTs; GPIO connections to sensor core DSP
Operating Environment	<ul style="list-style-type: none"> Input voltage: 3.6V Operating temperature: -30 to +85° C
Mechanical Specification	<ul style="list-style-type: none"> SoM: 58mm x 39mm x 4mm*/5.41mm# with 4x 90-pin board to board connectors *Stacking height #Standalone height
Software and OS	<ul style="list-style-type: none"> Android; Linux
Orderable Parts	<ul style="list-style-type: none"> System On Module (SOM): 1x Aikri-X10-6S-4 Development kit: Aikri-X10-6D-4 Camera interface card: EIC-DB-CAM-OVS (camera sensors not included)