

Aikri QCS4290 Development Kit

Based on the Qualcomm® QCS4290 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.

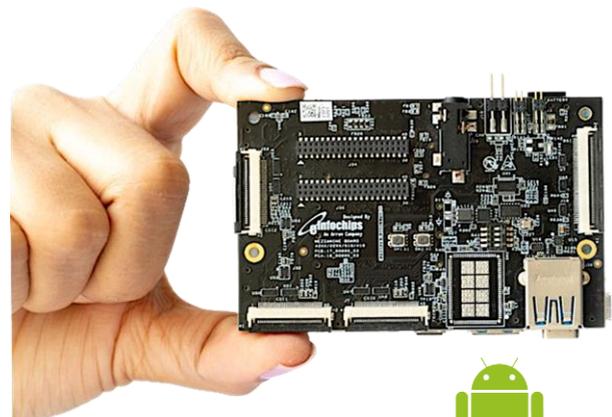
eInfochips Aikri QCS4290 Dev Kit

The Aikri 4290 development kit is powered by the Qualcomm® QCS4290 based Aikri System on Module(SoM). 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. The Aikri 4290 SoM, coupled with 1x1 802.11ac Wi-Fi, Bluetooth 5.1, location, FullHD cameras and display and a CAN interface for automotive applications, enables OEMs and engineers to create advanced designs at low costs, with the shortest turnaround time, while minimizing design risk factors.

The Aikri 4290 development kit enables OEMs and engineers to evaluate performance of QCS4290 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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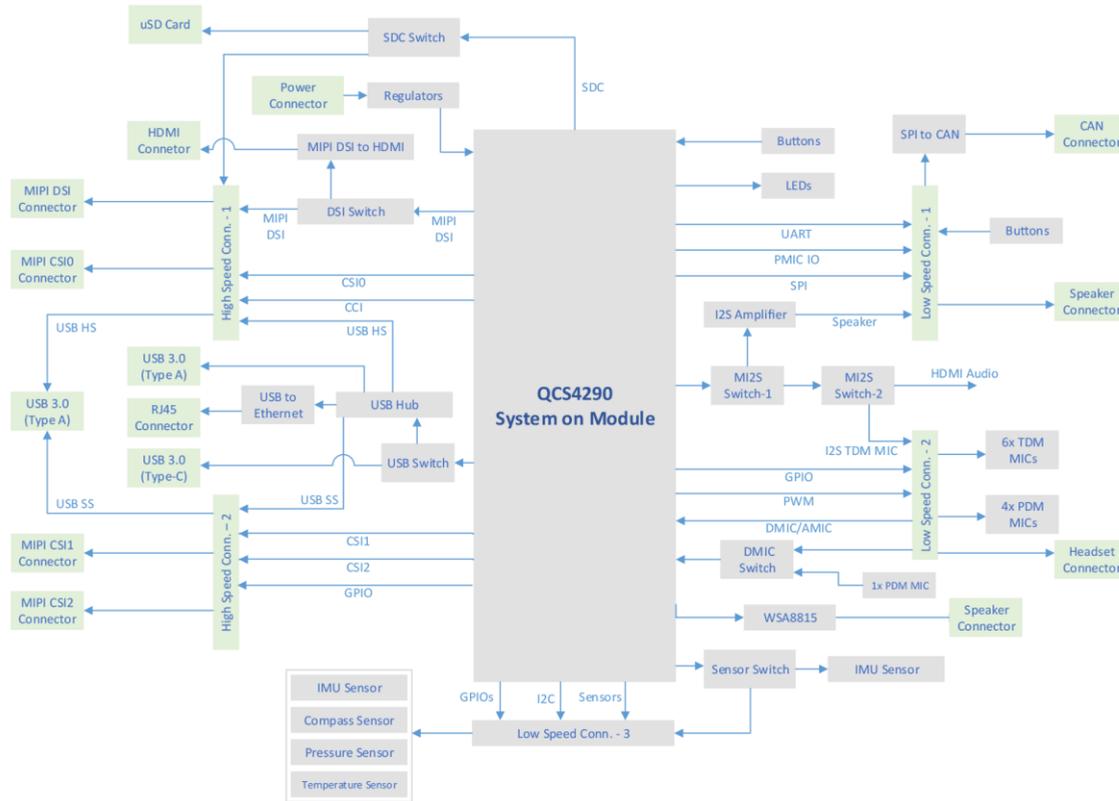


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Qualcomm



ENRICHING LIVES
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Aikri QCS4290 SoM	
Processors	8x Arm v-8 Kryo™ 260 CPU (Kryo gold @ 2.0 GHz; Kryo Silver @ 1.8GHz), dual HVX Hexagon® DSP, Adreno™ 610 GPU and 920 DPU, and Spectra™ 340T ISP
Memory	4GB LPDDR4x, 64GB eMMC
Wireless	Qualcomm® Wi-Fi via WCN3988 WLAN 1 × 1 802.11ac; Bluetooth5.0 (1x ufl connector on SoM)
Location	Standalone, GPS, GLONASS, BDS, NAVIC, QZSS, SBAS and GALILEO based on WGR7640 (1x ufl connector on SoM)
AI Performance (INT 8)	1 TOPS
Aikri QCS4290 Dev Kit	
Display Interfaces	<ul style="list-style-type: none"> HDMI™ out up to 1080p@60 with audio (DSI to HDMI) 1x MIPI-DSI 4-lane D-PHY 1.2 at 1.5 Gbps per lane
Camera Interface	<ul style="list-style-type: none"> 3x 4-lane CSIs on 30-pin connectors
Sensor Interface	<ul style="list-style-type: none"> 2x IMU sensor 1x Compass sensor 1x Pressure sensor 1x Temperature sensor
Audio Interfaces	<ul style="list-style-type: none"> 5x PDM DMIC Mono speaker amplifier (WSA8815) Stereo I2S amplifiers HDMI - audio out
I/O Interfaces	<ul style="list-style-type: none"> 1x USB-C 3.1 ; 2x USB 3.0 Type-A ports 1x MicroSD Card GPIOs (low speed expansion connector) High and low speed expansion headers 1x 10/100/1000 Mbps RJ45 Ethernet 1x MicroUSB for Console 6x User LEDs Battery connector 1x CAN (SPI to CAN)
Audio Interfaces	<ul style="list-style-type: none"> 4x PDM MICs 6x TDM MICs 1x Headset Jack 2x I2S Speaker connectors
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: 58mm x 39mm x 4mm*/5.41mm# with 4x 90-pin board to board connectors *Stacking height #Standalone height Carrier board and Mezzanine board: 85mm x 54mm, 96board CE specification dimensions with headers
Software and OS	<ul style="list-style-type: none"> Android 12 Kernel 4.19
Dev Kit Contents	<ul style="list-style-type: none"> 1x Aikri-42X-90AS-4 SoM 1x Carrier board 1x Mezzanine board 12V power adapter; USB cable
Orderable Parts	<ul style="list-style-type: none"> Development kit: Aikri-42X-90AD-4 Camera interface card: EIC-DB-CAM-OVS (camera sensors not included)