

Aikri QCS2290 Development Kit

Based on the Qualcomm® QCS2290 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 QCS2290 Dev Kit

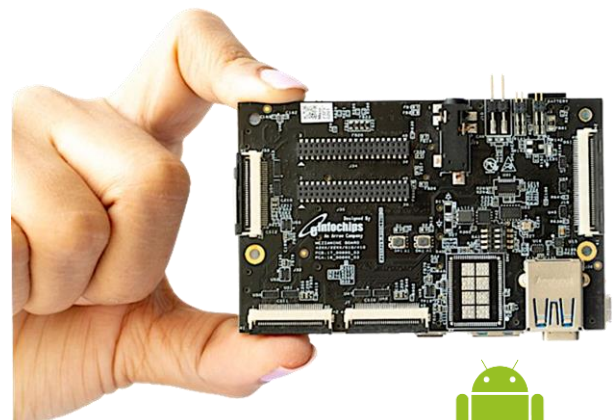
The Aikri 2290 development kit is powered by the Qualcomm® QCS2290 based Aikri System on Module. This SoM integrates a 64-bit Quad-Core application processor at 2.0 GHz, Adreno™ 702 GPU, and Spectra™ 340L image signal processor.

The Aikri 2290 SoM, coupled with 1x1 802.11ac WiFi, Bluetooth 5.0, USB3.1 interface, HD display capability and high fidelity audio, enables OEMs and engineers to create next-gen designs with the shortest turnaround time, while minimizing design risk factors.

The Aikri 2290 development kit enables OEMs and engineers to evaluate performance of QCS2290 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



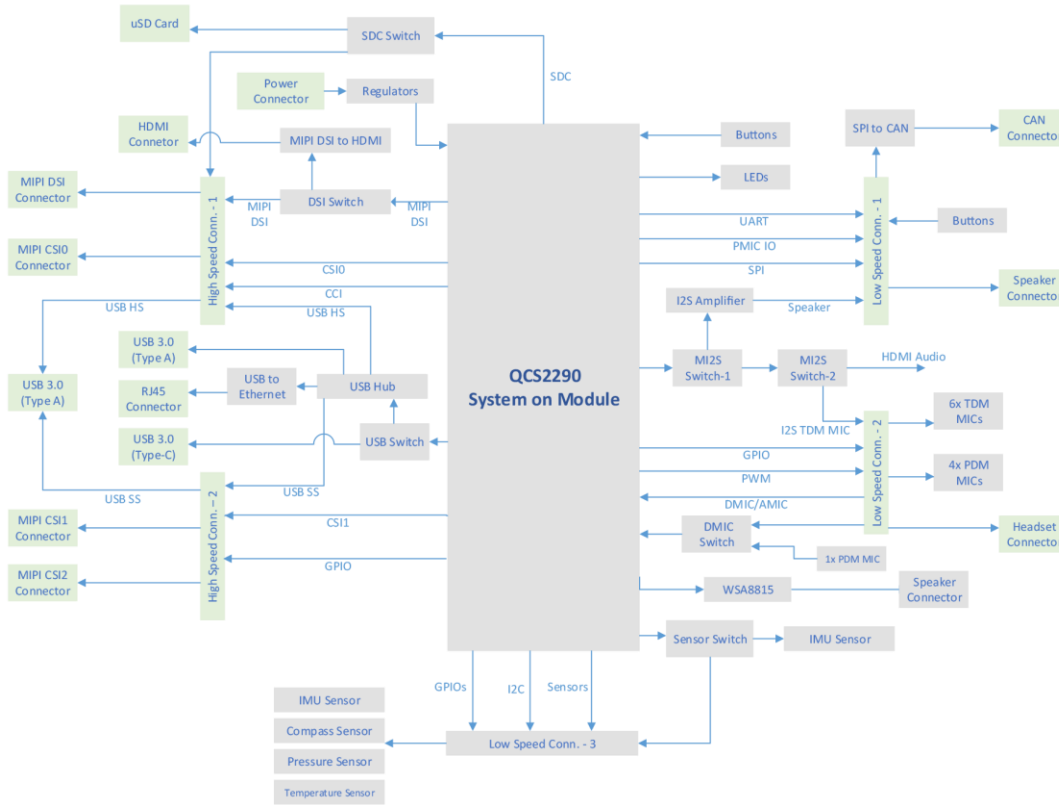
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ENRICHING LIVES
THROUGH
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Aikri QCS2290 SoM	
Processors	4x Arm Cortex-A53 @ up to 2.0 GHz, DSP, Adreno™ 702 GPU and 920 DPU, and Spectra™ 340L ISP
Memory	4GB LPDDR4x, 64GB eMMC
Wireless	Qualcomm® Wi-Fi via WCN3950 WLAN 1 × 1 802.11ac; Bluetooth5.0
Aikri QCS2290 Dev Kit	
Display Interfaces	<ul style="list-style-type: none"> HDMI™ out with audio up to 720p@60 1x MIPI-DSI 4-lane
Camera Interface	<ul style="list-style-type: none"> 2x 4-lane CSIs (CSI0, CSI1) 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; 6x TDM MICs Mono speaker amplifier (WSA8815) 1x Headset Jack Stereo I2S amplifiers (Selectable configuration of either I2S amplifier or HDMI audio through DIP switch) I2S audio output on HDMI Display via HDMI port (Selectable configuration of either I2S amplifier or HDMI audio through DIP switch)
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)
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-22X-90AS SoM 1x Carrier board 1x Mezzanine board 12V power adapter; USB cable
Orderable Parts	<ul style="list-style-type: none"> Development kit: Aikri-22X-90AD-4 Camera interface card: EIC-DB-CAM-OVS (camera sensors not included)