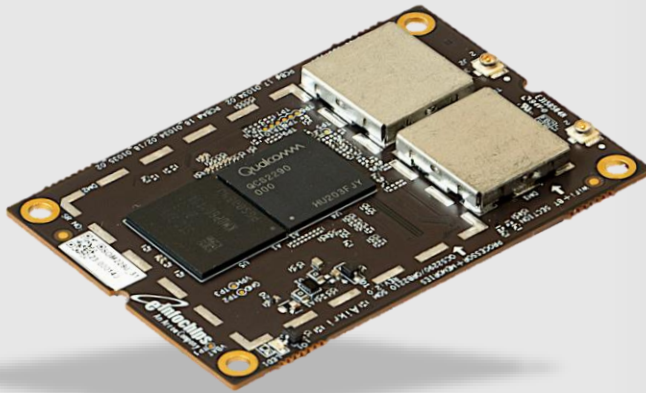


# AIKRI QCS2290 SYSTEM ON MODULE (SOM)

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.

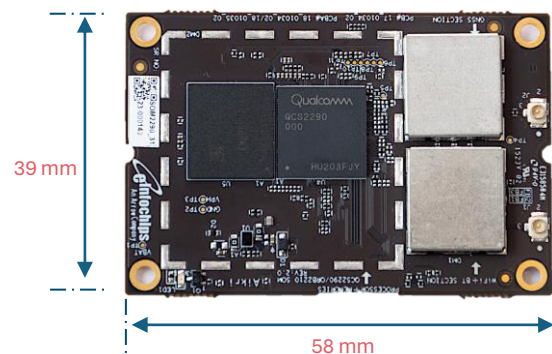
## eInfochips Aikri QCS2290 SoM

The Aikri 2290 System on Module (SOM) is based on the Qualcomm® QCS2290 processor. This SoM integrates a customized 64-bit Arm Cortex-A53 Quad-Core applications processor at 2.0 GHz, Adreno™ 702 GPU, and Spectra™ 340L image signal processor and delivers greater performance, improved graphics, and better-quality images at low power and cost.

The Aikri 2290 SoM has onboard calibrated 802.11ac 1x1 Wi-Fi and Bluetooth 5.0 and offers enhanced security for 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



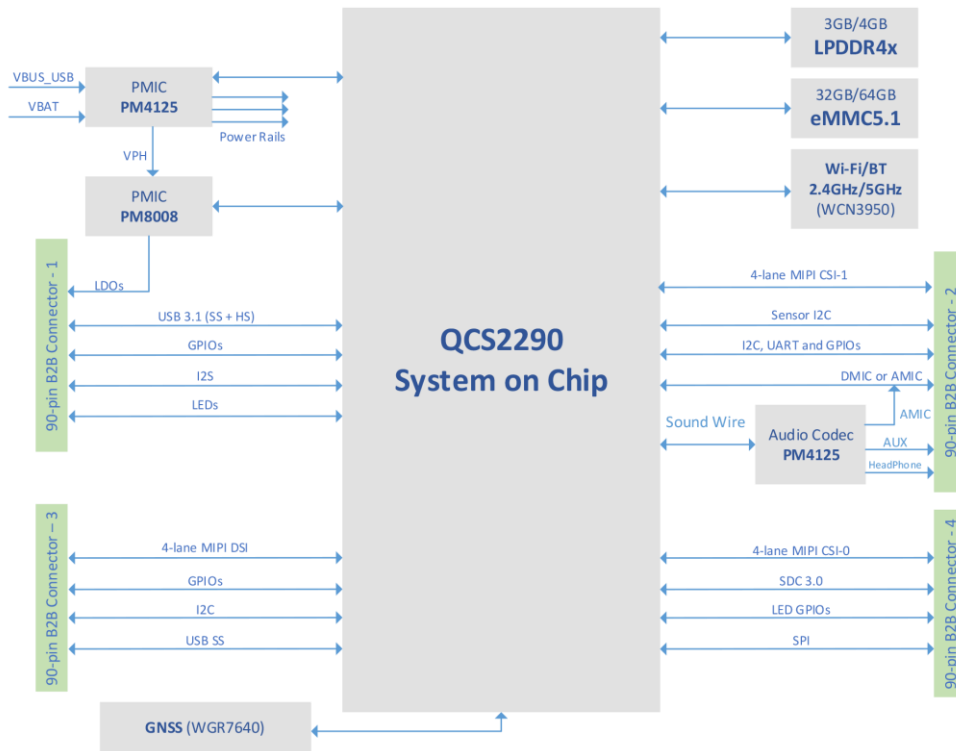
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ENRICHING LIVES  
THROUGH  
ENGINEERING  
EXCELLENCE



### Aikri QCS2290 SoM

<b>Processors</b>	Qualcomm® QCS2290 <ul style="list-style-type: none"> <li>64-bit customized Arm Cortex-A53 quad-core @ up to 2.0 GHz</li> <li>Adreno™ 702 GPU at 845 MHz with 64-bit addressing and 920 DPU</li> <li>Dedicated DSP shared between Snapdragon Sensor Core and low-power audio subsystem</li> <li>Spectra™ 340L ISP</li> </ul>	
<b>Memory</b>	4GB LPDDR4x, 64GB eMMC	
<b>Wireless</b>	<ul style="list-style-type: none"> <li>Qualcomm® Wi-Fi via WCN3950 WLAN 1 × 1 802.11ac; Bluetooth5.0</li> <li>1x UFL connector on SoM</li> </ul>	
<b>Display Interfaces</b>	1x MIPI-DSI 4-lane - D-PHY 1.2 at 1.5 Gbps per lane; split link supported	
<b>Camera Interface</b>	<ul style="list-style-type: none"> <li>2x MIPI-CSI 4-lane - D-PHY 1.2 at 2.5 Gbps per lane supported.</li> <li>2 × ISP (13 MP + 13 MP or 25 MP) at 30 fps ZSL</li> </ul>	
<b>Location</b>	Standalone, GPS, GLONASS, BDS, NAVIC, QZSS, SBAS and GALILEO based on WGR7640	
<b>Audio Interfaces</b>	<ul style="list-style-type: none"> <li>1x MI2S Port</li> <li>2x Tx and 2x Rx data lines SoundWire interface for PM4125 PMIC codec</li> <li>Stereo channel headset support from PM4125 PMIC codec</li> <li>1x SLIM bus port interface to WCN3950 BT audio</li> <li>Analog out (AUX_OUT) lines (1x pair) from PM4125 PMIC codec to RUN WSA8815 speaker amplifier.</li> </ul>	
<b>I/O Interfaces</b>	<ul style="list-style-type: none"> <li>1x USB-C 3.1</li> <li>GPIOs, SPIs, I2Cs, I3C, UARTs; GPIO connections to sensor core DSP</li> </ul>	
<b>Operating Environment</b>	Input voltage: 3.6V	Operating temperature: -30 to +85° C
<b>Mechanical Specification</b>	SoM: 58mm x 39mm x 4mm*/5.41mm# with 4x 90-pin board to board connectors *Stacking height #Standalone height	
<b>Software and OS</b>	Android 12, Kernel 4.19	
<b>Orderable Parts</b>	<ul style="list-style-type: none"> <li>System On Module (SOM): Aikri-22X-90AS-4</li> <li>Development kit: Aikri-22X-90AD-4</li> <li>Camera interface card: EIC-DB-CAM-OVS (camera sensors not included)</li> </ul>	