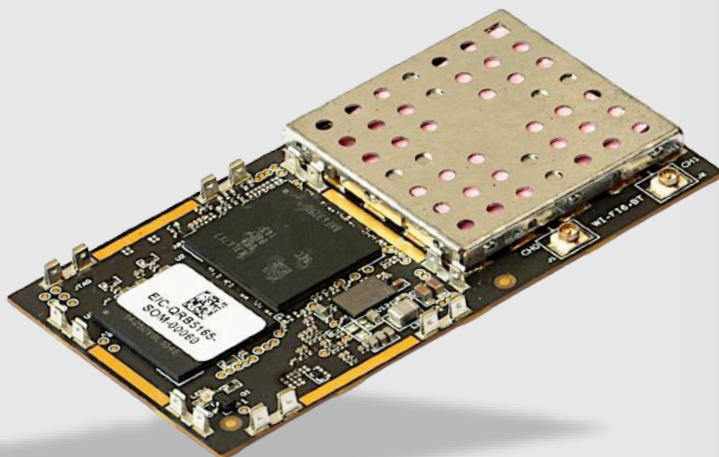


Aikri QRB5165 System On Module (SoM)

Based on the Qualcomm® QRB5165 SoC



- 1 AI and ML Applications
- 2 4K Camera
- 3 Medical Imaging / Medical
- 4 Machine Vision
- 5 Digital Signage / HMI
- 6 Collaboration System
- 7 Robotics
- 8 Telematics

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 QRB5165 SoM

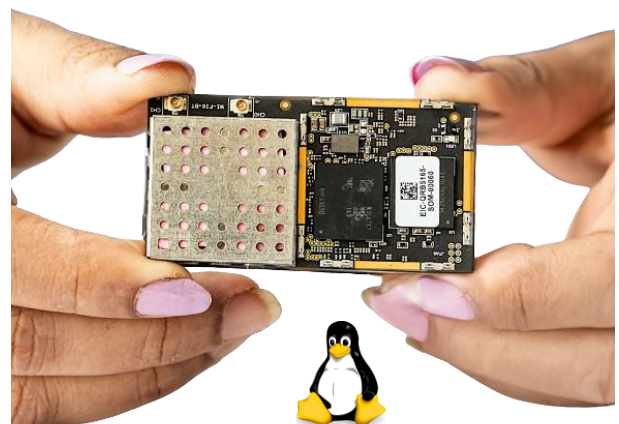
The Aikri 5165 System on Module (SoM) is based on Qualcomm® QRB5165 System on Chip (SOC). This SoM integrates Kryo™ 64-bit Octa-core 585 CPU, Adreno™ 650 GPU, Hexagon™ 698 HVX DSP, Spectra™ 480 camera ISP and Qualcomm's next-gen AI-Engine to specifically power AI-enabled, low power robots and drones.

The SoM coupled with 2x2 802.11ax WiFi-6, BT 5.0, multiple CSI cameras, full featured USB-C and high-fidelity audio provide excellent processing capabilities of multiple video streams up to 4K240 decode/4K120 encode.

The Aikri 5165 SOM enables OEMs to use a readily available design solution for their compute application needs 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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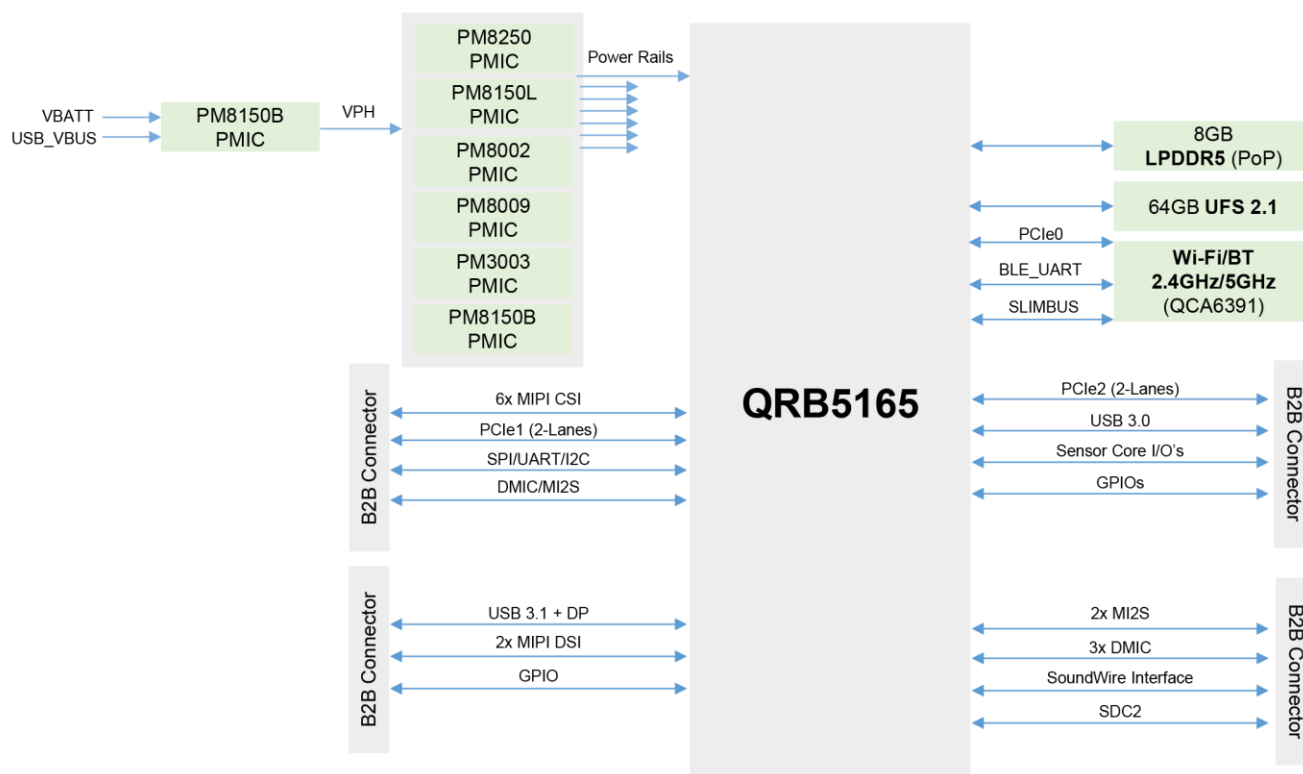


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Qualcomm



ENRICHING LIVES
THROUGH
ENGINEERING
EXCELLENCE



Aikri QRB5165 SoM

Processors	Qualcomm® QRB5165 <ul style="list-style-type: none"> 8x Kryo™ 585 – Quad Kryo gold cores @up to 2.8 GHz; Quad Kryo silver cores @1.8GHz Adreno™ 650 GPU at 545 MHz; Adreno 5th gen UHD VPU; Adreno 995 DPU Hexagon DSP with quad-HVX) and Hexagon Coprocessor (Hexagon CP) 2.0 Dedicated neural processing unit NPU230, for performance and always-on neural network (NN) use cases Spectra™ 480 ISP 	
AI Performance (INT 8)	15 TOPS	
Memory	8GB LPDDR5 PoP, 64GB UFS 3.1	
Wireless	<ul style="list-style-type: none"> Qualcomm® Wi-Fi via QCA6391 WLAN 2 x 2 802.11ax DBS (WiFi 6); Bluetooth5.1 2x UFL connectors on SoM 	
Display Interfaces	<ul style="list-style-type: none"> 2x MIPI-DSI 4-lane D-PHY 1.2 at 1.5 Gbps per lane USB-C with DisplayPort v1.4 at 8.1 Gbps/lane 	
Camera Interface	6x MIPI-CSI 4-lane - D-PHY 1.2 at 2.5 Gbps per lane supported.	
Audio Interfaces	<ul style="list-style-type: none"> 2x MI2S 3x DMIC 1x SoundWire 	
I/O Interfaces	<ul style="list-style-type: none"> 2x PCIe Gen3 2-lane GPIOs, SPIs, I2Cs, I3C, UARTs; GPIO connections to sensor core DSP 	
Operating Environment	Input voltage: 3.6V	Operating temperature: -30 to +85° C
Mechanical Specification	SoM: 59.7mm x 32.2mm	
Software and OS	Linux Ubuntu 18.04 .5 Kernel 4.19.x	
Orderable Parts	<ul style="list-style-type: none"> System On Module (SoM): Aikri-51X-65LS-8 Development kit: Aikri-51X-65LD-8 Camera interface card: EIC-DB-CAM-OVS (camera sensors not included) 	