RISE X4 6490 SOM

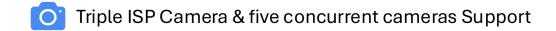


Introducing RISE X4 6490 SOM, powered by Qualcomm® QCS6490 Processor with re-engineered Hexagon™ processor, offering astonishing performance up to 12 TOPS with minimal power consumption. Ideal for rugged handhelds, EDGE AI box, Security cameras & industrial robots, seamlessly integrating USB 3.1, PCIe for edge computing.

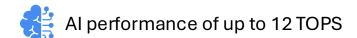
- (1) 45mm x 45mm
- (2) Customized Carrier Board Support
- (3) On Board Wireless Module Support



Product Features







Enhanced interfaces and peripherals

Extended-life software and hardware

On board location connectivity

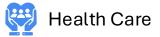
Industries We Serve

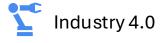


Security & Surveillance



Semiconductor





Technical Specification



| Platform | Qualcomm [™] QCS6490 |
|-----------------------------|--|
| CPU | Kryo Prime: Single high-performance core clocked up to 2.7 GHz Kryo Gold: 3 high-performance cores running at 2.4 GHz Kryo Silver: 4 low-power cores operating at 1.9 GHz |
| GPU | Adreno graphics processing unit (GPU) 643 Support for OpenGL ES 3.2, OpenCL 2.0, Vulkan 1.x, DX FL 12 |
| DSP | Hexagon DSP with dual HVX and 2K HMX (12 TOPS) Clock Speed 1.4 GHz |
| Memory/Storage | 8GB LPDDR5, 128GB UFS3.1 |
| Connectivity | WLAN: 802.11 a/b/g/n/ac/ax over PCIe with DBS, 2×2 MIMO (Wi-Fi 6E) Bluetooth® 5.2 Uplink/Downlink MU-MIMO, 4K QAM, 160 MHz channels (5 & 6 GHz) GPS, GLONASS, NavIC, BeiDou, Galileo, QZSS, and SBAS |
| Camera Interfaces | 3 IFE + 2 IFE lite, 5 concurrent MIPI CSI configurable in 4 + 4 + 4 + 4 + 4 + 4 configuration Qualcomm Spectra 570 L supports 36 + 22 MP at 30 fps/3 × 22 MP 30 fps ZSL. It also supports connectivity to multiple cameras due to 5 C-PHY/D-PHY interfaces |
| Display | Adreno 1075 DPU, On-device Display Resolution: FHD+ (1080 x 2520 pixels) 8L @ 120 fps, 1x DSI D-PHY (4-lane), DP 1.4 SST |
| Video Performance | Up to 4K60 decode for H.264/H.265/VP; Up to 4K30 encode for H.264/H.265; Support for HDR10 and HDR10+ playback |
| Other Interfaces | PCIe, USB3.1 Type C, Display port, USB 2.0, SDC, I2C, SPI, I2S, I3C, UART, DMIC input, GIPOs |
| Supply voltage | SOM Input Voltage: 3.4V ~ 4.5V, Typ. 3.9V 12V/5A DC Main Supply (supplied using carrier board) |
| Operating Environment | -40 to +55 °C |
| Operating System | Android & Qualcomm LINUX |
| Mechanical Specification | SOM: 45mm x 45mm |

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