

# RISE X1 5430 SOM



Introducing RISE X1 5430 SOM, powered by Qualcomm® QCS5430 Feature Pack1 Processor with re-engineered Hexagon™ processor, offering astonishing performance up to 3.5 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

 Dual ISP Camera & four concurrent cameras Support

 Robust enterprise Wi-Fi 6 and Wi-Fi 6E connectivity

 AI performance of up to 3.5 TOPS

 Enhanced interfaces and peripherals

 Extended-life software and hardware

 On board location connectivity

## Industries We Serve

 Automotive

 Security & Surveillance

 Biotech

 Semiconductor

 Health Care

 Industry 4.0

<b>Platform</b>	Qualcomm™ QCS5430
<b>CPU</b>	Kryo Gold: 2 high-performance Kryo Gold cores, each clocked at 2.13 GHz Kryo Silver: 4 low-power Kryo Silver cores running at 1.8 GHz each
<b>GPU</b>	Qualcomm® Adreno™ 642L GPU @ 315 MHz Support for OpenGL ES 3.2, OpenCL 2.0, Vulkan 1.x, DX FL 12
<b>DSP</b>	Hexagon DSP with dual HVX and 2K HMX (~3.5 TOPS) Clock Speed 1.4 GHz
<b>Memory/Storage</b>	8GB LPDDR5, 128GB UFS3.1
<b>Connectivity</b>	WLAN: 802.11 a/b/g/n/ac/ax over PCIe with DBS, 2x2 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
<b>Camera Interfaces</b>	2 IFE (22 MP + 22 MP) + 2 IFE lite, 4 concurrent MIPI CSI configurable in 4 + 4 + 4 + 4 configuration Qualcomm Spectra 570 L: 22 + 22 MP at 30 fps ZSL
<b>Display</b>	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
<b>Video Performance</b>	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
<b>Other Interfaces</b>	PCIe, USB3.1 Type C, Display port, USB 2.0, SDC, I2C, SPI, I2S, I3C, UART, DMIC input, GIPOs
<b>Supply voltage</b>	SOM Input Voltage: 3.4V ~ 4.5V, Typ. 3.9V 12V/5A DC Main Supply (supplied using carrier board)
<b>Operating Environment</b>	-40 to +55 °C
<b>Operating System</b>	Android & Qualcomm LINUX
<b>Mechanical Specification</b>	SOM: 45mm x 45mm