

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

Platform Qualcomm™ QCS5430

CPU 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

GPU Qualcomm® Adreno™ 642L GPU @ 315 MHz
Support for OpenGL ES 3.2, OpenCL 2.0, Vulkan 1.x, DX FL 12

DSP Hexagon DSP with dual HVX and 2K HMX (~3.5 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, 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

Camera Interfaces 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

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