

RISE Y1

Introducing RISE Y1 SOM, powered by the Qualcomm® SM6225 (Snapdragon™ 680) platform, delivering efficient compute performance and advanced multimedia capabilities in a compact form factor. Featuring an octa-core Kryo™ CPU, Adreno™ 610 GPU, and Spectra™ ISP, RISE Y1 supports LPDDR5x memory, 128GB UFS3.1 storage, and rich high-speed interfaces including MIPI-CSI, MIPI-DSI, USB, UART, SPI, and I²C for seamless peripheral integration. Designed for scalable embedded development, its small SOM footprint and flexible connectivity make it ideal for smart surveillance systems, industrial handheld devices, retail kiosks, edge AI gateways, and IoT applications.



FEATURES



Triple ISP Camera & five concurrent cameras Support



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



AI performance of up to 3.3 TOPS



Enhanced interfaces & peripherals



Extended-life software & hardware



On board location connectivity

Technical Specification

SOC	QCSM6225
CPU	Qualcomm Kryo 265 Octa-core CPU up to 2.4 GHz
AI Processing	Qualcomm AI Engine with Hexagon 686 processor and Hexagon Vector eXtensions
GPU / Graphics	Qualcomm Adreno 610 GPU with OpenGL ES 3.2, OpenCL 2.0 and Vulkan 1.1 support
Display	FHD+ (1080 × 2520) display support up to 90 Hz
Camera / ISP	Qualcomm Spectra 346 triple ISP with support for triple camera configurations Up to 64 MP photo capture Up to 32 MP single camera and 16 MP dual camera support
Video / Multimedia	Hardware video playback support for H.264, H.265 (HEVC), VP8 and VP9
Cellular Connectivity	Snapdragon X11 LTE modem with LTE Cat 13 download speeds up to 390 Mbps LTE Cat 13 uplink speeds up to 150 Mbps with 2×2 MIMO Dual SIM Dual Standby with VoLTE support
Wi-Fi & Bluetooth	Qualcomm FastConnect 6100 subsystem with Wi-Fi 5 / Wi-Fi 6-ready support Bluetooth 5.1 with Qualcomm TrueWireless and aptX Adaptive audio
Memory	LPDDR4x memory support up to 2133 MHz
Storage	eMMC and UFS 2.2 storage support
Audio	Qualcomm Aqstic audio codec with up to 192 kHz / 24-bit playback
Location	Multi-constellation GNSS with GPS, GLONASS, BeiDou, Galileo and NavIC support
Charging	Qualcomm Quick Charge 3.0 fast charging
Security	Hardware-based platform security with biometric authentication support