

QXe-900

Qualcomm®KryoGen 6 CPU built on Arm v8.2 Cortex technology **(Preliminary)**



Features

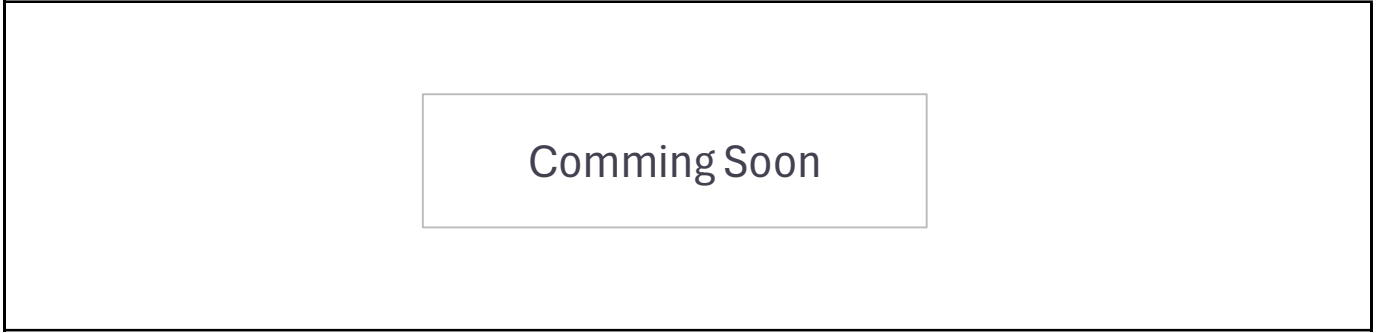
- Qualcomm® QCS9075M with onboard 36GB LPDDR5
- Low Power consumption 20Watt (SoC) with AI performance of up to 100 TOPS
- Multiple I/O interface for data collection
- 4MIPI Camera or (optional) 8x GMSL2 FAKRA
- (Optional)4x PoE IEEE802.3 AF
- Wide operating temperature range -20°C~70°C and wide power input 9~55V

Specifications

System		Interface	
CPU	Qualcomm®KryoGen 6 CPU built on Arm v8.2 Cortex technology	Audio	1 x Phone Jack (Line-Out/MIC-IN) 2 x Speaker Connector (R/L)(terminal block)
GPU	Qualcomm®Adreno663 GPU	CAN	Terminal block for 1 x CAN
NPU	Dual V73, four HVX, two HMX, up to 1.5 GHz	Serial Port	2 x DB9 (RS232/422/485)
Video Processor	decode 4k275, encode 4k170, concurrent 4k120 decode/encode	Ethernet	2 x RJ45 2.5Gb Ethernet (10/100M/1000M/2.5G)(QCA8081)
SoC	Qualcomm® QCS9075	Security & TPM 2.0	Yes
Memory	36GB LPDDR5	USB	2 x USB3.0 Type-A 1 x USB3.1 Type-C
Indicators	1 x LED indicator Power status	DI/DO	Terminal block 2x5 for 4DI/4DO
Operating System	Linux Kernel 4.14 & above, (64-bit)	Display	2 x DP out
Power Supply		Flash (for Boot)	1 x 128GB UFS3.1
Power Requirement	Support DC input range of 9V to 55V	Storage	1 M.2 M-key 2280 (PCIe x4) for NVMe
Power Consumption	TBD	Camera (optional)	8 x GMSL2 (FAKRA)
MTBF (Hours)	TBD	PoE (optional)	4 x RJ45 Gigabit Ethernet (10/100M/1000M)
Environmental and Mechanical		Wireless	1 x M.2 Key-E 2230 (USB2.0/PCIEx1)
Dimension	175mm(W) x 120mm(D) x 72mm(H)	4G/5G	1 x M.2 Key-B 3052 (USB3.0/USB2.0)
Weight	1.5kg	SIM	1 x Nano SIM card
Mouting/Installation	TBD	Micro SD	1 x Micro SD socket
Operating Temperature	-4 °F ~ 158 °F (-20 °C ~ 70 °C)	Button	IGN ON
Storage Temperature	-40 °F ~ 176 °F (-40 °C ~ 85 °C)	Power Connector	Terminal Block
Operating Humidity	5% ~ 95% relative humidity, non-condensing	Antenna	TBD
Certification		Battery	CR2032 RTC battery
Regulations	CE, FCC, and planning	Hardware monitoring	CPU Temperature

Dimension

Unit: mm / inch



Ordering Information

Packing List

TBD

Part Number

TBD

Optional Accessories

Part Number / Item

Wi-Fi Module	Wi-Fi Module M.2 2230 with Antenna
4G LTE Module	4G LTE Module M.2 3042 with Antenna
5G Module	5G Module M.2 3052 with Antenna
NEW	Expansion Board for Camera
NEW	Expansion Board for PoE