

SMA-Q6490

Qualcomm QCS6490, ultra low power, AI Computing with 12 TOPS (INT8)

Product Features

Specification

System Information

Processor	Kryo 670 octa-core (1×2.7 GHz + 3×2.4 GHz + 4×1.9 GHz), Arm v8 Cortex architecture
NPU	6th generation Qualcomm AI Engine, 12 TOPS with Hexagon DSP and tensor accelerator
GPU	Adreno 643, up to ~812 MHz
System Memory	8GB/16GB LPDDR5
Watchdog Timer	Secure (TrustZone) HW watch dog: 22 seconds in default
H/W Status Monitor	yes

Expansion

Expansion	PCIe3.0
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Storage

Storage	128GB UFS
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Display

eDP	* 1
Interface	PCIe3.0, GbE MDI, UART, USB, GPIO, DSI, I2C, I2S, DP, SDIO, CAN, MIPI-CSI, HDMI, eDP

Ethernet

Ethernet Interface	GbE MDI
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Software Support

OS	Win11 IoT (WoA), Android 13 (available in April)
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Certification

Certification Information CE,FCC

I/O

USB 2x USB3.2, 1x USB2.0

I2C Bus *3

PCIe PCIe 3.0 *2 , PCIe 3.0*1

GPIO *6

HDMI *1

I2S *2

SPI *1

UART *2

CAN *1

Mechanical & Environmental

Operating Temp. -25~60°C (commercial-grade), -25~85°C (Industrial grade , available in May)

Storage Temp. -25~75°C

Operating Humidity ☒ IEC60068-2-78, Damp Heat Steady State Test,40C,95%,48Hrs

Weight 45 g

Power Requirement 20W

Dimension (L x W) 82 x 50 mm