

EB5S Edge AI Station



The EB5S Edge AI Station is a high-performance AI edge computing device that supports 5G and Wi-Fi 6 connectivity. Featuring an industrial-grade fan-less design, it is optimized at the operating system level to maximize performance. With its built-in Edge OS, the device offers device management, video management, AI algorithm configuration, application upgrades, edge-cloud collaboration, customization, and multi-cloud connectivity for customers. The EB5S delivers 15 TOPS of AI performance, making it ideal for a variety of edge AI applications such as smart retail, smart buildings, smart factories, smart transportation, and many other edge AI application scenarios.

■ Scenarios



Smart City



Smart Building



Smart Retail



Smart Factory



Smart Transportation



Smart Grid

Features

- Premium performance with super high AI computing power.
- Advanced streaming media AI analysis service with deep optimization.
- Centralized management through End-edge-cloud platform.
- Versatile expansion options with a wide range of interfaces.
- Robust industrial design for challenging environments.
- Visual configuration of AI algorithms and applications.



Specifications

Platform	OS	Linux/Android
	SoC	QRB5165 (Linux)/QCS8250 (Android)
	Qualcomm® Artificial Intelligence (AI) Engine (AI Performance: 15 TOPS)	CPU: Qualcomm® Kryo™ 585 CPU; CPU Clock Speed: Up to 2.84 GHz
		GPU: Qualcomm® Adreno™ 650 GPU
		DSP: Qualcomm® Hexagon™ 698 Processor
Image Processor	Qualcomm® Spectra™ 480 ISP	
Video Processor	Qualcomm® Adreno™ 665 VPU, H264 & H265 codec support; Video decoding: 8K@60FPS; video encoding: 8K@30FPS.	
System Memory	RAM	8GB LPDDR5
Storage	Flash	128GB UFS3.0
	External Expansion	1 x Micro SD card slot, supporting M.2 2280 NVME SSD (SSD is optional)
I/O	HDMI	2 x HDMI OUT
	Audio IN/OUT	2 x 3.5 inch Jack for 1 x MIC, 1 x Earphone
	Ethernet	2 x RJ45, Gigabit Ethernet (10M/100M/1000M)
	USB	3 x USB 3.0 Type-A, 1 x USB 3.1 Type-C
	COM Port	Phoenix connectors, 2 x RS485 and 2 x RS232 interfaces
	DI/DO	Phoenix connectors, 4 x DI (Photocoupler) and 2 x DO (Switch: Short/OFF)
	SIM	1 x Nano SIM card slot
	Antenna	6 x antenna connectors, 2 for WIFI and 4 for 4G/5G connectivity.
Wireless Connectivity	WIFI	Support M.2 WIFI module (WIFI module is optional)
	4G/5G	Support M.2 3042 4G/3052 5G NR sub-6 module (4G/5G module is optional)
Input & Indicators	Buttons	Power button & Reset button
	LEDs	Power status, WIFI status, 5G status
Others	RTC Battery	CR2032 RTC Battery
Power	DC Input	Input DC range support from 12V to 24V
Mechanical	Dimensions	235mm x 200mm x 42mm
	Weight	body: 1911g, adaptor: 449g, giftbox: 2814g
	Mount	Desktop & Wall mount
Environment	Proof level	IP40
	Operation Temperature & Humidity	-20°C ~ 60°C, 5% ~ 95% non-condensing
	Storage Temperature & Humidity	-40°C ~ 70°C, 5% ~ 95% non-condensing
	Anti-Vibration	0.5Grms @ 5 ~ 500Hz, random
Certification		FCC, PTCRB, TSCA, CP65, FirstNET