

# EB6S Edge AI Station



EB6S Edge AI Station is an edge computing device with ultra-high AI performance, featuring a 15 TOPS SoC and extensible 70/200 TOPS AI performance accelerator card, and supporting 24 channels FHD video decoding. Its industrial-grade design ensures the reliability and stability of the product, making it widely applicable in smart city, smart building, smart retail, smart factory, smart transportation, and smart grid applications.

## ■ Scenarios



**Smart City**



**Smart Building**



**Smart Retail**



**Smart Factory**



**Smart Transportation**



**Smart Grid**

## ■ Features

- 15 TOPS of AI performance without acceleration card and up to 70 TOPS/200 TOPS with an extensible AI performance accelerator card.
- 24 channels of FHD video decoding.
- Wide temperature range, industrial design, stable performance, and solid structure.
- 5G, WIFI6, and Gbits Ethernet network.
- Rich and highly scalable interfaces.



## ■ Specifications

<b>Platform</b>	<b>OS</b>	Linux
	<b>SoC</b>	QRB5165N
<b>System Memory</b>	<b>RAM</b>	8GB, 2 x Non-POP Memory 4GB LPDDR5
<b>Storage</b>	<b>Flash</b>	128GB UFS3.0
	<b>Expansion</b>	1 x Micro SD card slot; 1 x M.2 connector support 2280 NVME SSD (optional)
<b>Extensible AI Performance</b>	<b>AI card</b>	Support two kinds of Qualcomm AI cards (optional), 70 TOPS/200 TOPS (INT8), 35 TFLOPS/100 TFLOPS (FP16)
<b>Peripheral Interface</b>	<b>HDMI</b>	1 x HDMI out, 1 x HDMI in
	<b>Audio in/out</b>	2 x 3.5 inch Jack for 1x MIC, 1x Earphone
	<b>Ethernet</b>	2 x RJ45, Gigabit Ethernet (10M/100M/1000M)
	<b>USB</b>	3 x USB3.0 Type-A, 1 x USB 3.1 Type-C
	<b>COM Port</b>	Phoenix connector, 2 x RS485, 2 x RS232
	<b>DI/DO</b>	Phoenix connector, 4 x DI (Photocoupler), 2 x DO (Switch: Short/OFF)
	<b>SIM</b>	1 x Nano SIM card slot
	<b>Antenna</b>	6 x Antenna connector, 2 x for WIFI, 4 x for 4G/5G
<b>Wireless Connection</b>	<b>WIFI</b>	Support M.2 WIFI module (WIFI module optional)
	<b>4G/5G</b>	Support M.2 3042 4G/3052 5G NR Sub-6 module (4G/5G module optional)
<b>Button &amp; Indicators</b>	<b>Buttons</b>	Power button, Reset button
	<b>LEDs</b>	Power status, WIFI status, 5G status
<b>Others</b>	<b>RTC Battery</b>	CR2032 RTC battery
<b>Power</b>	<b>DC Input</b>	Support DC input range of 12V to 24V
<b>Mechanical</b>	<b>Dimensions</b>	235mm x 200mm x 42mm
	<b>Weight</b>	Body: 1920g; AC-DC adaptor: 452g
	<b>Mount</b>	Desktop, Wall mount
<b>Environment</b>	<b>Proof Level</b>	IP40
	<b>Operation Temperature &amp; Humidity</b>	-20°C~60°C, 5%~95% non-condensing
	<b>Storage Temperature &amp; Humidity</b>	-40°C~80°C, 5%~95% non-condensing