

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 | LU/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 USB3.0 Type-A, 1 x USB3.1 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 |