

QuakeCore-EDGE

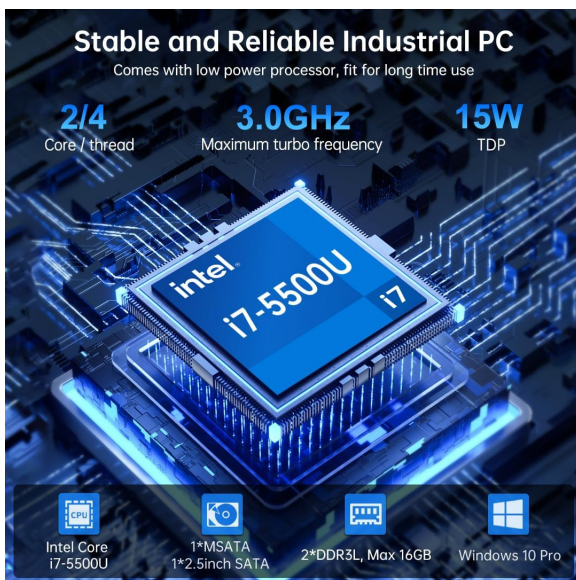
Rugged Edge Server for Permanent Seismic Data Retention & SHM Analytics



QuakeCore-EDGE is QuakeLogic's next-generation compact edge server purpose-built for **long-term seismic waveform storage and structural health monitoring (SHM) analytics**. Featuring rugged industrial hardware, fanless thermal stability, and embedded software, it ensures **real-time access, secure data retention, and 24/7 reliability in harsh environments**.

Stable and Reliable Industrial PC
Comes with low power processor, fit for long time use

2/4 Core / thread
3.0GHz Maximum turbo frequency
15W TDP



intel
i7-5500U

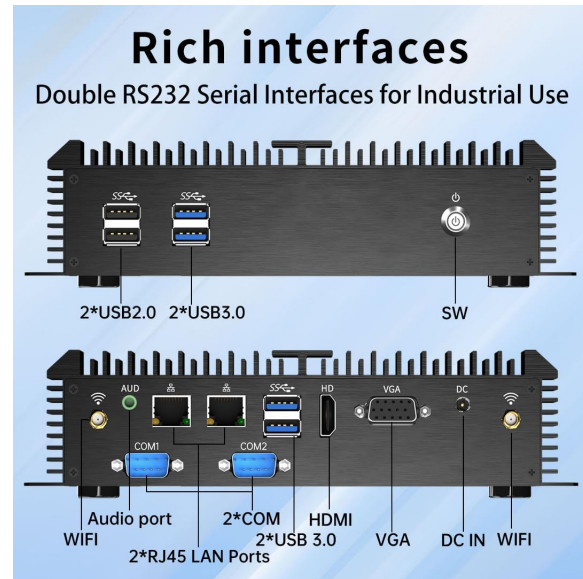
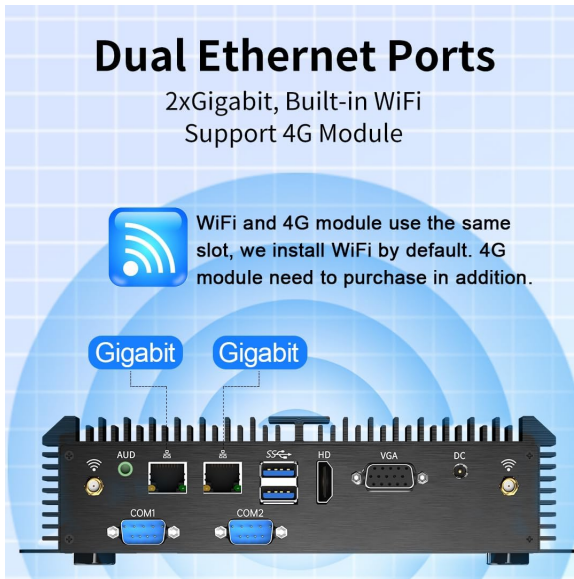
Intel Core i7-5500U
1*MSATA
1*2.5inch SATA
2*DDR3L, Max 16GB
Windows 10 Pro

Fanless Design

Prevent the Dust from entering the machine, prolong the service time.




Zero noise
Energy-saving



With its **modern web interface, RESTful API, and QuakeLogic's proprietary SMARTMONITORING suite (SMARTBUILDING, SMARTDAM, SMARTTUNNEL, SMARTBRIDGE)**, QuakeCore-EDGE transforms seismic and structural data into actionable insights for infrastructure resilience.

Technical Specifications

- **Processor:** Intel® Core i7 Embedded (optimized for edge computing)
- **Memory:** 8 GB DDR4 RAM (expandable)
- **Storage:** 2 TB SSD for permanent MiniSEED archives
- **Networking:** Gigabit LAN, optional Wi-Fi/4G LTE module
- **Interfaces:** USB 3.0, HDMI, RS-232
- **Power:** 12V DC input (AC adapter included)
- **Temperature:** -20 °C to +60 °C, rugged fanless design

 **Software & Functionality**

- **Wave Server:** Embedded SeedLink-compatible server for real-time streaming and archival
- **MiniSEED Archive:** Permanent, time-indexed storage with long-term retention
- **Web Dashboard:** Live station status, waveform previews, alerts, and storage usage
- **REST API:** Easy data queries and system control endpoints
- **Security:** Encrypted SSH, firewall, and VPN integration
- **OTA Updates:** Remote firmware and application updates with rollback support
- **SMARTMONITORING Suite:** Runs QuakeLogic's advanced SHM applications – SMARTBUILDING, SMARTDAM, SMARTTUNNEL, and SMARTBRIDGE

 **Applications**

- Continuous seismic & structural monitoring of **bridges, dams, hospitals, silos, and heritage structures**
- **Remote seismic stations** requiring autonomous operation and high data availability
- **Research labs** needing long-duration, high-resolution waveform storage and SHM analytics
- **Backup storage** for regional and national seismic networks



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Live Datasheet