

AI DATA PROCESSING & ARCHIVE SERVER

# QUAKE SERIES by QuakeLogic

★ POWERED BY AI

SOFTWARE DEVELOPED BY QUAKELOGIC

**QUAKEVAULT-PRO.** Records every sensor, understands every event, and keeps it all – on a 14" pen touchscreen.



QUAKEVAULT-PRO

512 GB

\$1,999

AI server + 14" touchscreen · free keyboard

1 TB

\$2,499

Years of continuous data on site



**MANUFACTURED IN USA**

from U.S. and imported parts

Designed, Software Development and Manufactured in Roseville, California

QuakeLogic Inc. · Roseville, California  
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# Why QUAKEVAULT-PRO?

Because it replaces a stack of servers, screens, scripts and services with one appliance that works on day one — and understands your data for you.

|                               | THE USUAL WAY                                            | WITH QUAKEVAULT-PRO                                             |
|-------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|
| <b>Setup</b>                  | Days installing Earthworm, SeedLink, drivers and scripts | Arrives configured. Finds and registers your stations by itself |
| <b>Making sense of events</b> | Someone reviews waveforms by hand                        | Built-in AI detects, classifies and explains every event        |
| <b>Seeing your data</b>       | A separate PC, monitor and remote login                  | A 14" touchscreen that comes with it                            |
| <b>Custom processing</b>      | Export the data, then process it somewhere else          | Your Python runs on live data, right on the box                 |
| <b>Getting data out</b>       | Command-line tools and one-off scripts                   | Any window, any format, in two clicks. Open REST API            |
| <b>Privacy</b>                | Data sent to a cloud service to be analysed              | Runs offline. Your data never leaves the site                   |

## Minutes

from unboxing to live stations

## Every event

checked and explained by on-device AI

## From \$1,999

server, touchscreen and all QuakeLogic software included

Designed, built and supported by seismic-monitoring engineers at QuakeLogic in Roseville, California.

# Your data. Your AI. One beautiful screen.

A fanless server and a 14" pen touchscreen, made to work as one. It records every sensor, lets built-in AI make sense of every event, runs your own Python, and keeps years of data on site.



**\$1,999**

512 GB

**\$2,499**

1 TB

Server, 14" touchscreen, pen, GPS antenna, power supply and all software included.

**Plus a free wireless keyboard.**



## AI built in

Detects, classifies and explains every event. On the device.



## Touch & pen

Big, clear controls. Tap, pinch and swipe, or use the pen.



## Your Python

Runs on every event or every second of live data.

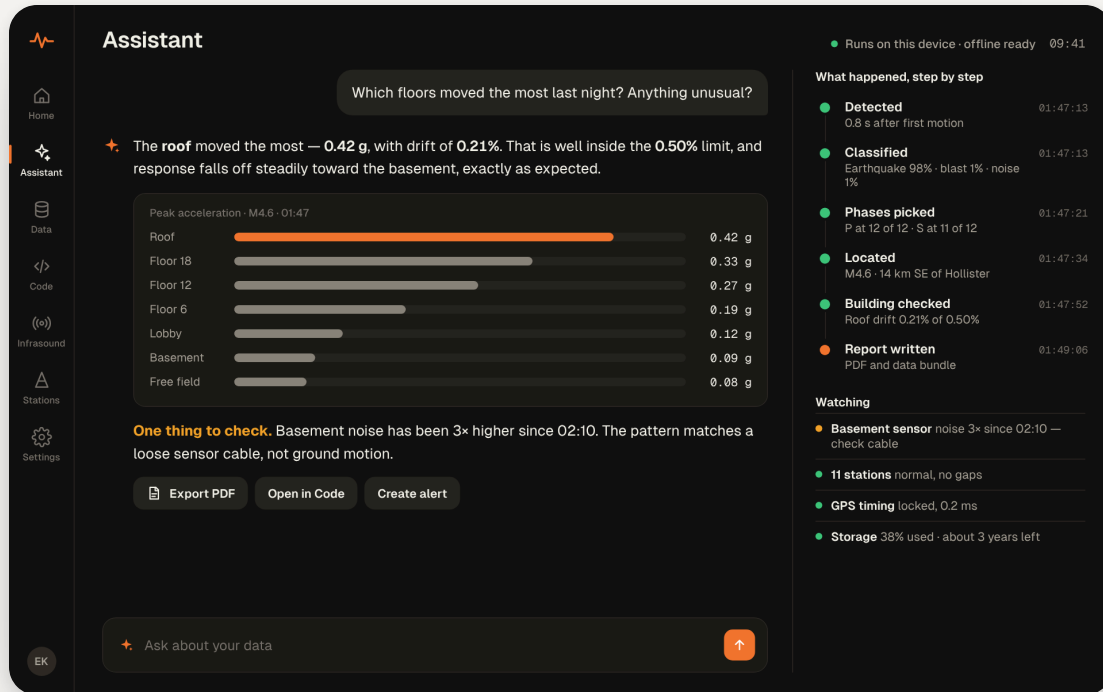


## Keeps everything

Years of data on site. Any window in two clicks.

# AI that does the work. So your team doesn't have to.

Built-in AI looks at every second of data, understands what happened and tells you what matters, in plain language. It runs on the device, without internet, so your data never leaves the site.



## Detects

Spots every event in under a second, on every station, day and night.



## Classifies

Tells an earthquake from a blast, traffic, machinery or wind — with a confidence score.



## Picks phases

Marks P and S arrivals automatically, then locates and sizes the event.



## Explains

Writes a plain-language summary and a full PDF report minutes after shaking.



## Answers

Ask in plain English: "Which floor moved most?" Get the chart and the answer.

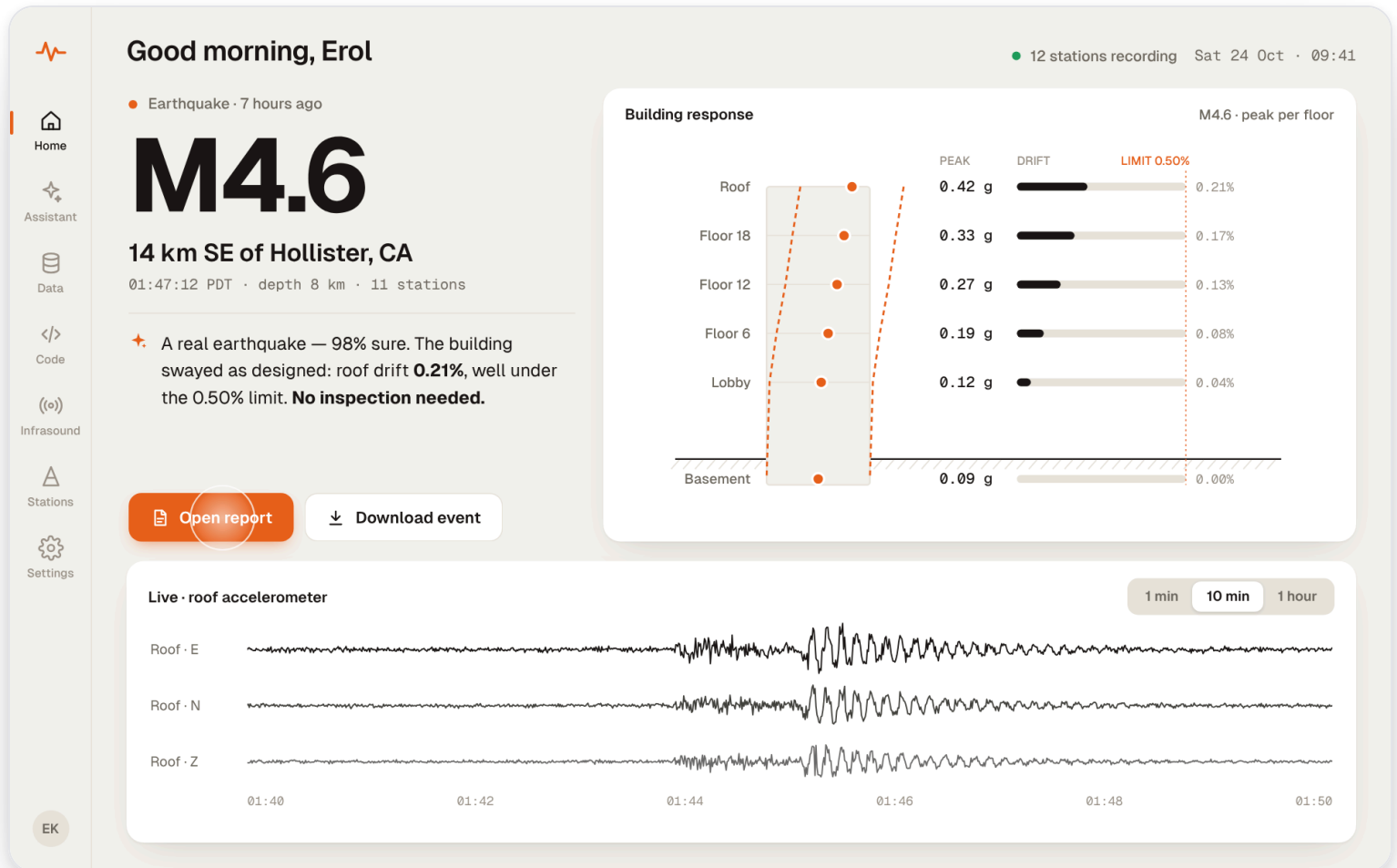


## Watches

Flags noisy sensors, gaps, timing and storage issues before they cost you data.

# So easy, it runs itself.

Turn it on and every station is already live. One clear home screen tells you what happened, how the building responded and whether anything needs you.



## Answers first

The last event, its size, location and the AI verdict, right at the top.

## Made for touch

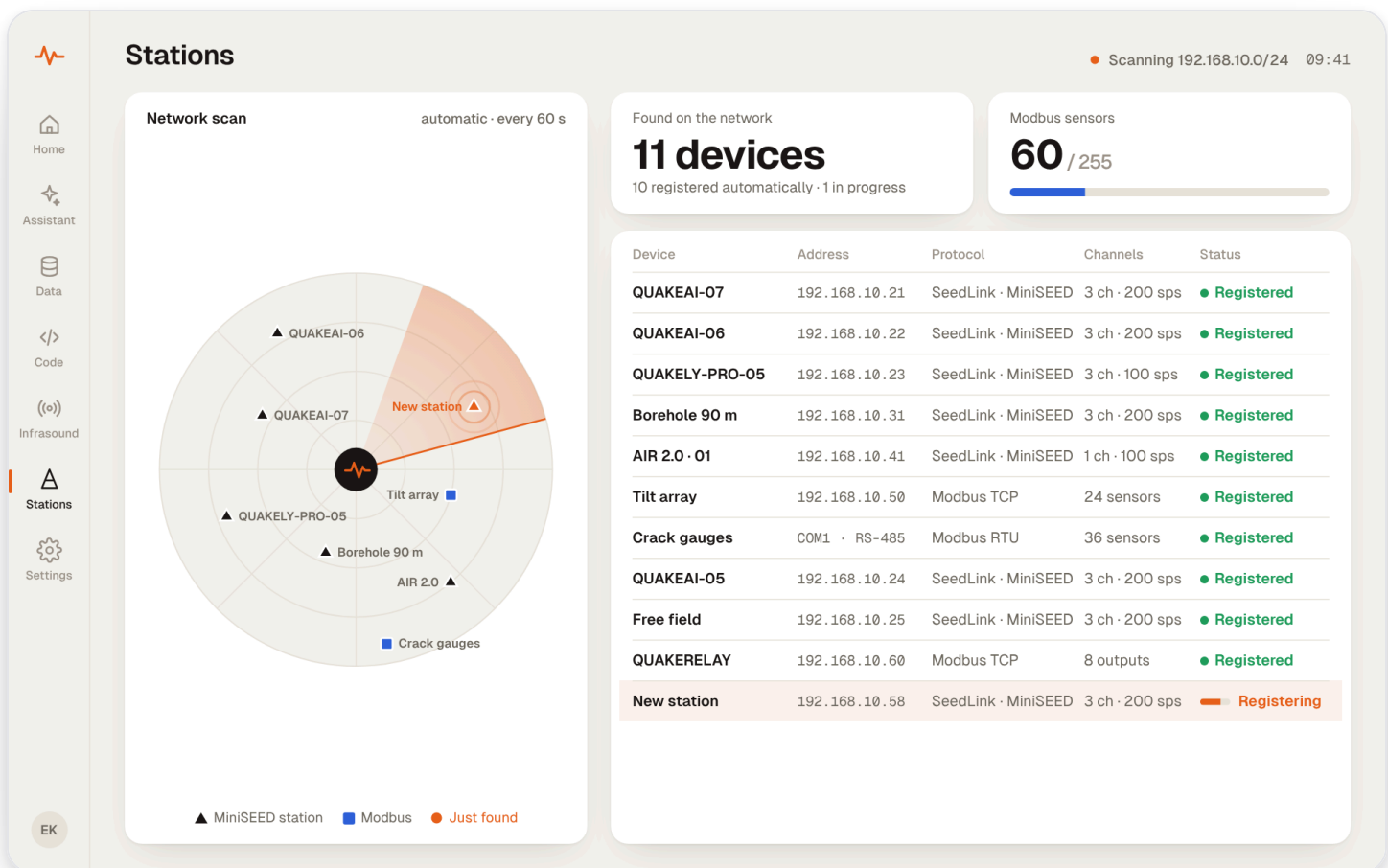
Big targets, pinch to zoom waveforms, swipe between stations.

## See how it moved

Peak shaking and drift for every floor, against your limits.

# Finds every station. By itself.

Connect QUAKEVAULT-PRO to your network and it scans for every MiniSEED streaming device, registers each one and starts recording. No IP lists, no configuration files. New stations appear the moment they come online.



## Automatic discovery

Scans the network every minute for SeedLink and MiniSEED streaming devices.



## Automatic registration

Station name, channels, sample rate and metadata, set up for you.

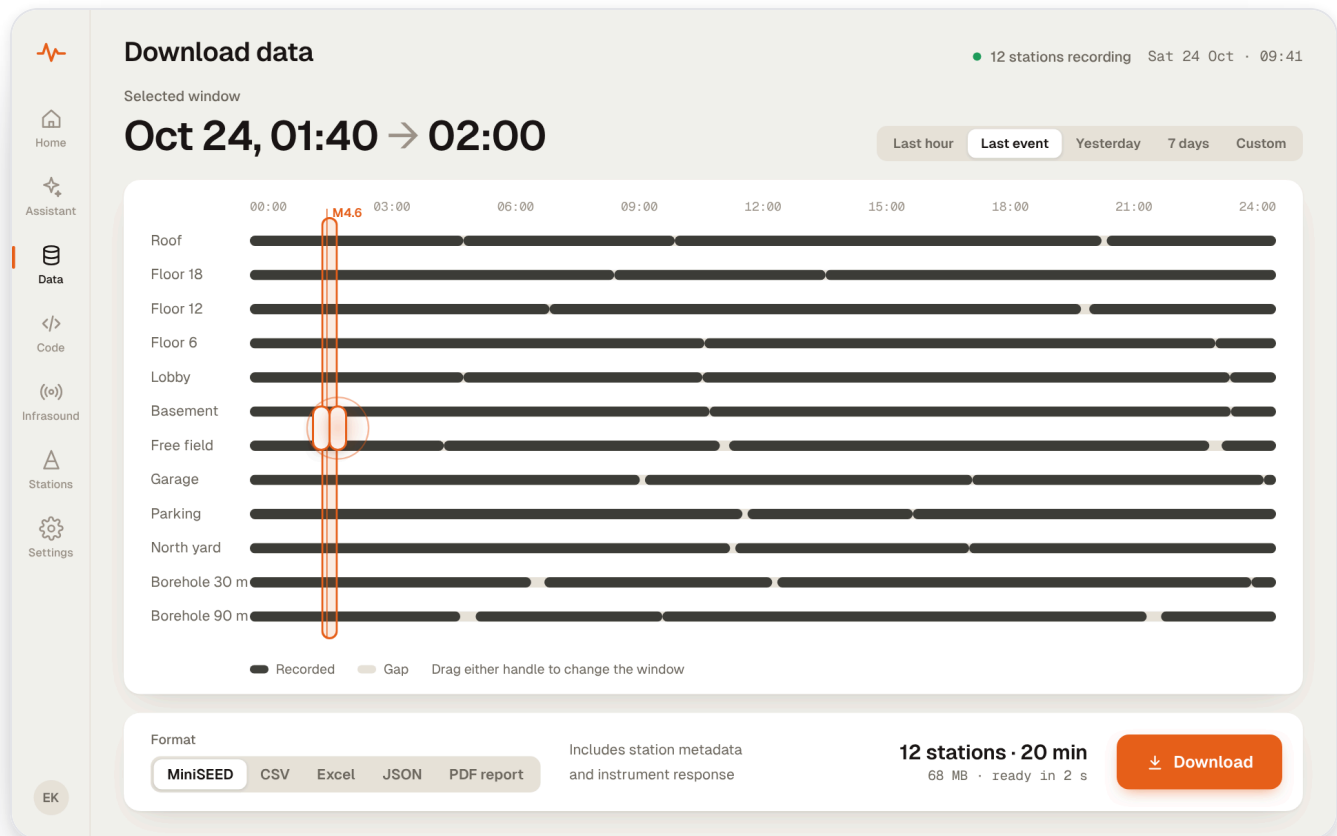


## Up to 255 Modbus sensors

Tilt, crack, strain, water level and more, over Modbus TCP and RTU, at the same time as seismic data.

# Any window. Any format. Two clicks.

Tap "Last event", or drag the orange window to any moment in the past. Pick a format. Download. Station metadata and instrument response come with it.



MiniSEED

CSV

Excel

JSON

PDF report

StationXML

## See the gaps

Green bars show exactly what was recorded, station by station.

## Event bundles

Every event packed with all stations and a report, ready to send.

## Standards built in

SeedLink, FDSN Web Services, Earthworm and Winston, out of the box.

## Intensity, the way your country measures it

Computed automatically for every station and every event.

JMA

KMA

MMI

PHIVOLCS PEIS

## Live streaming and conversion

Built-in SeedLink server streams live data to any client. One-click conversion to the Korean QSD format.

# Reports that write themselves.

After every event, QUAKEVAULT-PRO writes the report for you — AI assessment, peak values, waveforms, spectra and drift — and sends it to your team. Need one for a certain day? Tap Report, pick the window, done.



## Automatic

- After every event above your threshold
- Daily, weekly or monthly summaries
- Station health and data completeness
- Emailed, sent to FTP and kept on the box

## On demand

- Any event or any time window
- Event, summary or health template
- PDF in seconds, data bundle attached
- Your company name on every page

Example: the automatic event report for the M4.6 event, ready two minutes after the shaking stopped.

# Know first. Connect everything.

The moment something happens, the right people hear about it — by text and email — and your other systems get the data on their own.



**QUAKEVAULT**  
Text message

Today 01:47

QUAKEVAULT: M4.6 earthquake 01:47 PDT, 14 km SE of Hollister. Roof 0.42 g, drift 0.21% (limit 0.50%). No inspection needed. Report sent by email.

Today 02:14

QUAKEVAULT: Basement sensor noise 3× normal since 02:10. Check the sensor cable.



**QUAKEVAULT-PRO**  
alerts@your-site · to operations team

01:49

**Event report — M4.6, 24 Oct 2026 01:47 PDT**

An earthquake was recorded at 12 of 12 stations.

**AI assessment:** real earthquake, 98% confidence. Maximum drift 0.21% at the roof, below the 0.50% limit. No inspection needed.

The full report and the data bundle are attached.



EV-20261024-0147.pdf · 1.2 MB



MiniSEED bundle · 4.8 MB



## SMS alerts

Short text alerts by level and by station, to the right people, within seconds.



## Email

Alerts and full reports with the PDF and data attached. Daily and weekly summaries.



## MQTT

Publishes events, peak values and station health to your broker for IoT and dashboards.



## FTP / SFTP

Built-in FTP server to pull data, or scheduled push of files and reports to your server.



## Webhooks

An HTTP POST to any URL on every event, for Teams, Slack or your own systems.



## Modbus TCP

Peak values and alarm levels for PLC, SCADA and building management systems.



## QUAKERELAY outputs

Trigger sirens, shutdowns and elevator recall through QuakeLogic relays.



## REST API, SeedLink, FDSN

Open standards for observatories, research software and custom apps.

**MQTT** quakevault/site-1/events → {"mag": 4.6, "pga\_g": 0.42, "ai": "earthquake"}

# Your Python. On live data.

Write a few lines and choose when they run: after every event, every second, or on demand. Filters, spectra, drift and the AI summary are one call away.

Home

Assistant

Data

Code

Infrasound

Stations

Settings

EK

building\_check.py picker.py alerts.py

```

1 # Runs by itself after every event
2 from quakevault import on_event, report
3 from quakevault.ai import summarize
4
5 @on_event(min_pga=0.05)
6 def building_check(ev):
7     st = ev.waveforms().bandpass(0.1, 25)
8     sa = st.response_spectrum(damping=0.05)
9     drift = ev.drift()
10
11     if drift.max() > 0.005:
12         ev.alert("Inspect the building")
13
14     report.add(sa, drift, summarize(ev))
15     report.save("pdf")

```

After every event
Every second
On demand
Run

Response spectrum · M4.6

Sa (g) vs period (s)

Roof
Floor 12
Basement

Output

0.4 s

- event 01:47:12 · 12 stations loaded
- response spectra · 5% damping
- max drift 0.0021 at roof · no alert
- summary written by assistant
- report.pdf saved · 0.4 s

## Real time

Hooks on every 1 s packet for your own triggers and detectors.

## After every event

PGA, PGV, response spectra, drift and reports, automatically.

## Full toolbox

Filters, FFT, spectrograms, STA/LTA, magnitudes, Hypo71.

● ● ● REST API

```

GET /api/v1/events?since=24h

{
  "id": "ev_20261024_0147",
  "magnitude": 4.6,
  "ai_class": "earthquake", "confidence": 0.98,
  "pga_g": { "roof": 0.42, "basement": 0.09 },
  "report": "/events/ev_20261024_0147.pdf" }

```

## Open REST API

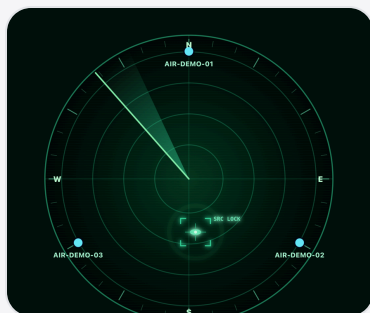
Pull events, AI results, waveforms and station health into SCADA, BMS or your own apps, in any language. Everything on screen is one API call away.

# One server. Every kind of station.



## Infrasound monitoring

Add three AIR 2.0 sensors and QUAKEVAULT-PRO finds where low-frequency noise comes from. AI sonar gives bearing and range in feet and meters by TDOA. Machine learning separates a real recurring source from background. Calibrated dB(G) records (ISO 7196, 0.01–20 Hz) give timestamped evidence.



## Seismic & strong-motion networks

A full local archive at every station, served to observatories over SeedLink and FDSN.



## Structural health monitoring

With SENSE-AI: structural response, drift and inspection priority after every event.



## Earthquake early warning nodes

Keeps accelerograph data on site and forwards detections to central EEW servers.



## Remote & field stations

Fanless, -15 to +60 °C, restarts itself after power loss. Optional 4G LTE.



## Universities & research

Open formats and Python for research and teaching, with live data from day one.



## Plants, dams & critical sites

A defensible record of every vibration, with alerts by level for operations.

# Every port has a job.

A fanless industrial server built for monitoring, with the connections stations, sensors and control rooms actually use.



- |                                                                                                                                                                                                                                           |                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1</b>  <b>2 × Gigabit Ethernet</b><br/>One port for the sensor network, one for your office or internet. Keeps stations isolated and secure.</p> | <p><b>2</b>  <b>2 × RS-232 (COM1, COM2)</b><br/>Serial digitizers, GPS clocks, PLCs and Modbus RTU sensors through an RS-485 adapter.</p> |
| <p><b>3</b>  <b>4 × USB 3.0, 2 × USB 2.0</b><br/>Touch input, keyboard, fast export to drives, 4G LTE modem.</p>                                       | <p><b>4</b>  <b>HDMI</b><br/>Drives the 14" touchscreen in full 1920 × 1200.</p>                                                          |
| <p><b>5</b>  <b>VGA</b><br/>A second display for control rooms or older monitors.</p>                                                                  | <p><b>6</b>  <b>Dual-band Wi-Fi antennas</b><br/>Wireless setup and a backup link when cables fail.</p>                                   |
| <p><b>7</b>  <b>12 VDC input</b><br/>Runs from mains, battery, solar or UPS. Restarts by itself after power loss.</p>                                  | <p><b>8</b>  <b>Audio out</b><br/>A local alarm tone or speaker in the room.</p>                                                          |
| <p> <b>GPS antenna (included)</b><br/>Precise time for every sample, and a built-in NTP server for the whole network.</p>                              |                                                                                                                                                                                                                              |

# Tech specs

|                                |                                                                                             |                             |                                                    |
|--------------------------------|---------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------|
| <b>Processor</b>               | Intel Core i5, 2 cores / 4 threads, up to 2.6 GHz                                           | <b>Memory</b>               | 16 GB DDR3L                                        |
| <b>Storage</b>                 | 512 GB SSD, or 1 TB                                                                         | <b>Display</b>              | 14" IPS, 1920 × 1200, multi-touch, kickstand       |
| <b>AI</b>                      | On-device detection, classification, phase picking, anomaly watch, plain-language assistant | <b>Cooling</b>              | Fanless, passive heat sink                         |
| <b>Ethernet</b>                | 2 × Gigabit RJ45                                                                            | <b>Wireless</b>             | Dual-band Wi-Fi; 4G LTE optional                   |
| <b>Serial / video</b>          | 2 × RS-232; HDMI and VGA                                                                    | <b>USB</b>                  | 4 × USB 3.0, 2 × USB 2.0                           |
| <b>Timing</b>                  | GPS antenna, built-in NTP server                                                            | <b>Power</b>                | 12 VDC; 100–240 VAC adapter                        |
| <b>Operating temp.</b>         | –15 to +60 °C (server)                                                                      | <b>Software</b>             | Linux, Earthworm, SeedLink server, Docker, Python  |
| <b>API &amp; inputs</b>        | REST, FDSN; station auto-discovery; up to 255 Modbus sensors                                | <b>Exports</b>              | MiniSEED archive; CSV, XLSX, JSON, PDF; Korean QSD |
| <b>Reports &amp; intensity</b> | Automatic and on demand; JMA, KMA, MMI, PHIVOLCS                                            | <b>Alerts &amp; outputs</b> | SMS, email, MQTT, FTP/SFTP, webhooks, Modbus TCP   |

## QUAKEVAULT-PRO 512

# \$1,999

512 GB SSD

## QUAKEVAULT-PRO 1T

# \$2,499

1 TB storage

## In the box

Server · 14" touchscreen with kickstand · pen  
· GPS antenna and cable · power supply · all software and AI ·

**free wireless keyboard (white & red)**

Options: 4G LTE module (on request) · AIR 2.0 infrasound sensors · Quake Series cloud dashboard from \$299 / year

## COMMERCIAL TERMS

USD, **EXW Roseville, California** (Incoterms<sup>®</sup> 2020). Lead time 2–3 weeks. Freight, duties and taxes excluded. Prices effective 24 October 2026, subject to change.

## SUPPORT

**12-month warranty.** Configured and tested in Roseville, California, under ISO 9001:2015. Remote commissioning and support from the USA.

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## Ready when you are.

Order or book a live demo: [sales@quakelogic.net](mailto:sales@quakelogic.net) · +1 (916) 899-0391