VOICEX

datasheet

RECORDER SERVER
VRS-50

ED137 VoIP Recording, Live Monitoring & Archiving

Rack-mount voice recorder server for Air Traffic Control, airport ground, military and emergency service networks—engineered for continuous 24/7 duty in mission-critical environments.

The VRS-50 captures, monitors and archives EUROCAE ED137 VoIP communications as standard WAV files — secure, redundant recording with continuous 24/7 reliability, powered by an NVIDIA Jetson Orin Nano AI module.



KEY FEATURES

Dual Gigabit Ethernet
Two independent GbE interfaces for resilient recording and monitoring.

Built-in VPN Client
Encrypted tunnels for secure remote access and off-site monitoring.

WebSocket Live Monitoring
Monitor multiple channels live with real-time audio streaming.

Linux Operating System
A stable, secure and field-proven foundation for continuous duty.

NTP Client Mode
Network time synchronization keeps every recording precisely time-stamped.

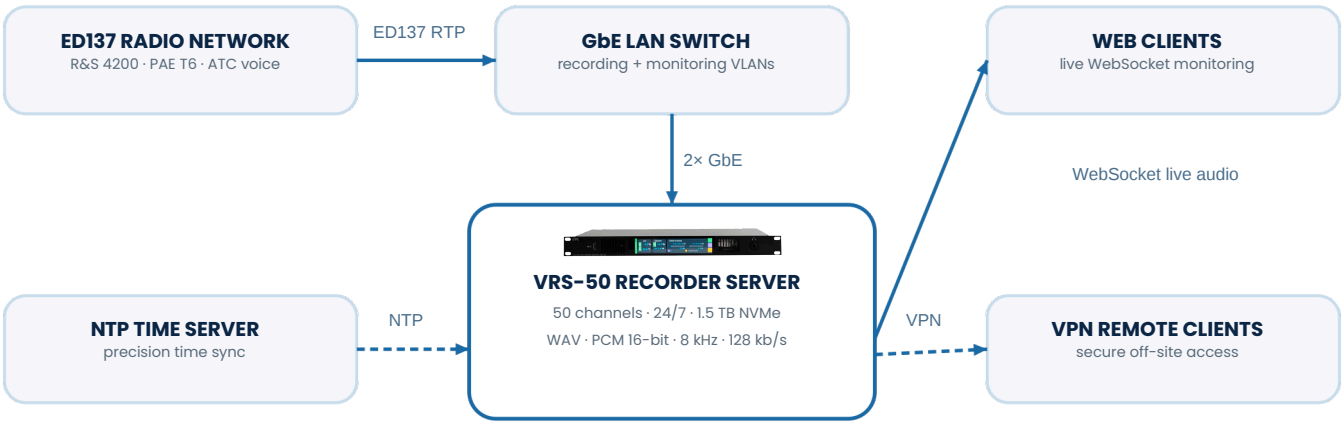
Embedded Web Server
Full configuration and monitoring from any standard web browser.

NVIDIA Jetson Orin Nano AI
High-performance AI hardware platform for advanced audio analytics.

Dual Power Sources
90–230 VAC mains and 12–30 VDC XLR input for fail-safe redundant power.

Interoperability tested with R&S Series 4200 and PAE T6 Series 2 & 3 ED137 radio systems

TYPICAL DEPLOYMENT



1.5 TB	50	1 MB/Min	250 days	25 W	1U
NVMe storage	Simultaneous channels	Recording rate per channel	@ 50 ch · 2 h/day	Power consumption	19" rack height

VoiceX Recorder Server VRS-50 · EUROCAE ED137 VoIP Recorder

Technical Specifications

VoIP standard	EUROCAE ED137 — VoIP for Air Traffic Management (ATM)
Recorded audio format	WAV — PCM 16-bit, 8 kHz, mono (128 kb/s per channel)
Internal storage	1.5 TB NVMe SSD
Storage capacity	≈ 250 days (50 channels × 2 h/day × 1 MB/min ≈ 6 GB/day)
Local display	OLED graphic status display
Ethernet	2 × Gigabit Ethernet ports
Time reference	Hardware clock and NTP client synchronization
Secure access	Built-in VPN client
Remote management	Embedded web server for monitoring and configuration
Live monitoring	Multi-channel WebSocket live audio monitoring
Hardware platform	NVIDIA Jetson Orin Nano AI module
Operating system	Linux
DC power input	12 – 30 VDC via XLR female connector
AC power input	90 – 230 VAC
Power consumption	25 W typical
Cooling	Long-life fan
Dimensions	19-inch rack mount, 1U height
Interoperability	Field-tested with R&S Series 4200 and PAE T6 Series 2 & 3 radio systems

APPLICATIONS

- Air Traffic Control Towers
- Area Control Centres (ACC)
- Airport Ground Operations
- Military & Defense
- Emergency Services Dispatch
- Incident Investigation

All specifications are subject to change without notice. EUROCAE ED137 is a standard of the European Organisation for Civil Aviation Equipment. NVIDIA and Jetson are trademarks of NVIDIA Corporation in the United States and other countries.

MORE INFO →

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