

High Data Rate/High Capacity Rack-Mounted Recorder/Server System

Product Description

The TuffServ® Rack System (TRS 380) Ethernet Data Recorder - a high-performance, ruggedized rack system designed for Telemetry over IP (TMoIP), Voice over IP (VoIP), and Video over IP streaming data recording. With dual 2U chassis and up to 192TB capacity, it offers exceptional processing power, connectivity options, and removable storage magazines for secure data handling. Engineered for challenging environments and trusted networks, this open system ensures seamless integration and compliance.



Encryption Options

- FIPS 197/AES256: Available for Data-At-Rest and Data-In-Transit
- FIPS-140: Available for Data-At-Rest
- Commercial Solutions for Classified (CSfC): Available for Data-At-Rest and Data-In-Transit

Features

- **High data rate, large capacity recording**
- **Dual 2U chassis for maximum performance**
- **Removable storage magazines for secure data**
- **Multiple Expansion Sites for Additional I/O**
- **Industry Standard Architecture and commodity SSDs**

Ampex Common Compute Environment (ACCE)

ACCE is a comprehensive software suite designed for data acquisition, management, and storage. It provides a unified interface and supports various hardware devices, simplifying data and device management while ensuring data integrity.

- Software-defined recording for capturing diverse data types
- Facilitation of third-party software integration
- Accurate timestamping and synchronization with external time sources
- File indexing for efficient data retrieval and analysis
- Comprehensive device management capabilities

Data Types

Ampex offers an open architecture platform designed to address the unique data storage and management challenges faced by the defense industry, particularly the Department of Defense (DoD) weapon system portfolios. Its adaptability enables seamless integration of new input/output configurations, ensuring effective management and storage of any data type required.

- Support for diverse critical data types such as EO/IR, EW/ISR, Mission Data, Flight Test, Bus Data, and Prognostic and Health data
- Open architecture platform designed to handle unique defense industry data storage and management challenges
- Seamless integration of new input/output configurations for effective data management and storage
- Commitment to innovation and continuous improvement to address emerging challenges

System

Specifications ^{1&2}

CPU:	Intel Xeon Silver 4215
Network Interfaces:	Six Gigabit Ethernet and One IPMI Management Gigabit Ethernet
Removable Storage:	Up to 24 Removable NVMe Solid State Drives
Network Protocols:	NFSv4, NFSv3, CIFS/SMB, FTP, TCP, UDP
Operating System:	Red Hat Enterprise Linux (RHEL) plus ACCE Framework
Encryption:	AES 256/FIPS 197, FIPS-140, and Commercial Solutions for Classified (CSfC)

Performance

Internal Data Rate:	Varies by Configuration
NFS Data Rate:	Varies by Configuration

Power

Power Input:	120/240V 50/60 Hz AC
Dissipation:	Varies by Configuration

Mechanical

Dimensions:	3.5" H x 17.1" W x 18" / 16.2" D
Weight (System):	44lbs

Environmental

Temperature:	0° C to +45° C
Humidity:	5% to 90% RH
Vibration:	1 grms
Shock:	20g (half sine, 2ms, calculated)
EMI Compatibility:	MIL-STD-461

¹ Specifications subject to change without notice

² Contact Ampex for availability of options