

Rugged Data System-Network File Server, Mission Computer, Data Recorder

Product Description

The TuffServ® 282 (TS 282) is a rugged and high-performance file server designed for challenging environments. It includes built-in power hold up, front-panel diagnostics display, and dual removable media options. With a large capacitor bank, it ensures reliability without external power. The dimmable front-panel display provides status and BIT exception condition information. Troubleshooting is simplified with the dedicated front-accessible ethernet interface.



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

- **More than 200MB/s sustained read or write throughput**
- **Six second Full Load Power Holdup**
- **Standard Dual Gigabit Ethernet Interfaces**
- **Two Removable Memory Modules**
- **Built Rugged, MIL-STD-810 with MIL-STD Connectors**

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 Core 2 Duo SL9400
Network Interfaces:	Two 1 Gigabit Ethernet; One 10/100 Diagnostic NIC
Removable Storage:	Custom Configurations handling up to 16TB or higher
Network Protocols:	NFSv4, NFSv3, CIFS/SMB, FTP, TCP
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:	300 MByte/sec (sustained, to RSM)
NFS Data Rate:	200 MByte/sec sustained (read or write)

Power

Power Input:	28VDC
Dissipation:	41W

Mechanical

Dimensions:	9.0" H x 4.8" W x 11.0" D
Weight (System):	14.6lbs

Environmental

Temperature:	-40°C to +55°C
Humidity:	0% to 95% RH
Vibration:	4.6grms (active) / 9.8grms (endurance)
Shock:	20g (half sine, 11ms)
EMI Compatibility:	MIL-STD-461

¹ Specifications subject to change without notice

² Contact Ampex for availability of options