

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

Product Description

The TS540 is a rugged and scalable solution that delivers exceptional performance even in tight and compact areas. It offers high sustained data rates for onboard data storage. With multiple interfaces and expandability options, it provides versatile connectivity. The TS540's detachable memory module supports significant storage capacities, enabling efficient data management. Its robust design and adaptable architecture make it a reliable choice for demanding environments with space constraints.



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

- **Removable Storage Capacity up to 16TB**
- **Small and lightweight 105cu. In, and less than 10lbs**
- **Greater than 800MB/s sustained network throughput**
- **Expandability and Flexibility: Customizable I/O options**
- **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 Subsystems:	Intel Core i7
Network Interfaces:	Two 1 Gigabit Ethernet and One 10/100 Fast Ethernet
Removable Storage:	Custom Configurations but can handle up to 16TB
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:	900 MBytes/sec Sustained
NFS Data Rate:	800 MByte/sec Sustained

Power

Power Input:	28VDC
Dissipation:	Varies by Configuration

Mechanical

Dimensions:	2.9" H x 4.25" W x 8.5" D
Weight (System):	10lbs

Environmental

Temperature:	-40°C to +55°C
	-40°C to +71°C (With Suitable Conduction Cooled Surface)
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