TuffServ® 480v2

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



Product Description

The TuffServ® 480v2 (TS 480v2) is a rugged and scalable NAS computer/server/recorder with enhanced performance and storage capacity. It excels in onboard data storage applications, delivering high sustained data rates. With multiple interfaces and expandability options, it offers versatile connectivity. The removable storage array supports significant storage capacities, ensuring efficient data management.

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 16TB Or Higher**
- **Various Recording Formats Including Ch 10 And PCAP**
- **Optional Optical 10GbE Interfaces**
- **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

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System

Specifications [1&2]

CPU:	Intel Core i7
Network Interfaces:	2x 1000Base-T Gigabit Ethernet, Two USB, VGA
Optional Interfaces:	1x 10 Gigabit Ethernet, mini-PCIe and XMV expansion sites for GPS, 1553, etc.
Removable Storage:	Up to 16TB or higher
Network Protocols:	NFS, CIFS/SMB, PCAP, FTP, TCP, UDP, IP
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:	500MB/s
NFS Data Rate:	375MB/s

Power

Power Input:	28VDC
Dissipation:	Varies by Configuration

Mechanical

Dimensions:	5.25” H x 7.25” W x 10.0” D
Weight (System):	17.5lbs

Environmental

Temperature:	-40C to +71C
Humidity:	0% to 95% RH
Vibration:	10 grms
Shock:	20 g, half sine, 11ms
EMI Compatibility:	MIL-STD-461

[1] Specifications subject to change without notice

[2] Contact Ampex for availability of options

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