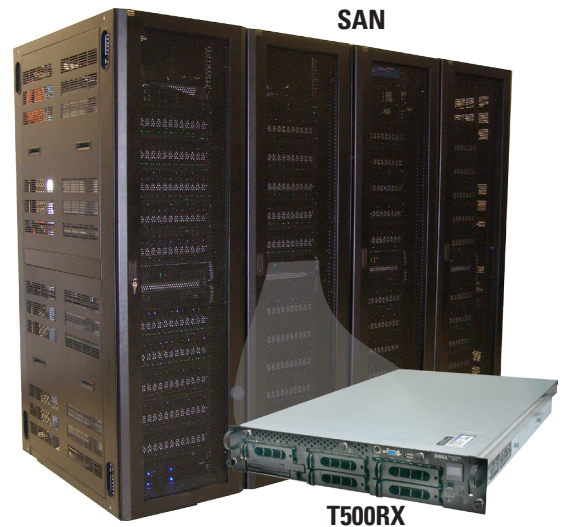


## T500RX LARGE-SCALE RECORDING OPTION (T500RX-SAN)

### OVERVIEW

The RT Logic Telemetry® 500 High-Rate Digital/Analog Recorder System (T500RX) can be paired with commercially available high volume storage systems for limitless, reliable data storage (T500RX-SAN).

The T500RX-SAN is proven with large capacity (100 TB+) Storage Area Network (SAN) and Network Attached Storage (NAS) systems such as Hewlett Packard (HP), Dell, SGI and other commercial SAN vendors. This seamless addition is made possible by the open, non-proprietary architecture of the T500RX product.



### APPLICATION

The T500RX-SAN option is ideal for any application that requires large volume storage, very high data rate recording, and/or a very high reliability architecture on supportable, open media.

A common application for the T500RX-SAN is to use the T500RX's circular buffer capability to store operational data for a given period (30 to 60 days is common). Once the retention period has passed, the T500RX automatically deletes the older recordings or transfers them to a long term storage area.

Coupling the T500RX with high-volume storage also enables recording of data streams at aggregate multi-Gigabit per second rates. One of the traditional limitations of high rate data recording is the number of hard disks available for writing data. The T500RX-SAN option overcomes this limitation by scaling to an arbitrarily large number of disks.

The T500RX-SAN option also enables extremely reliable recording and archiving system architectures. Our customers have used redundant T500RX systems to record critical mission data to NAS and SAN systems in order to negate the impact of a recorder failure. The T500RX constantly monitors the status of the storage array. If a storage array failure is detected, the T500RX begins recording to its local disk until the failure is recovered. Superior reliability for 24/7/365 operations is achieved by leveraging this feature along with the inherent reliability of the T500RX (redundant, hot-swappable disks and power supplies) and NAS/SAN technology.

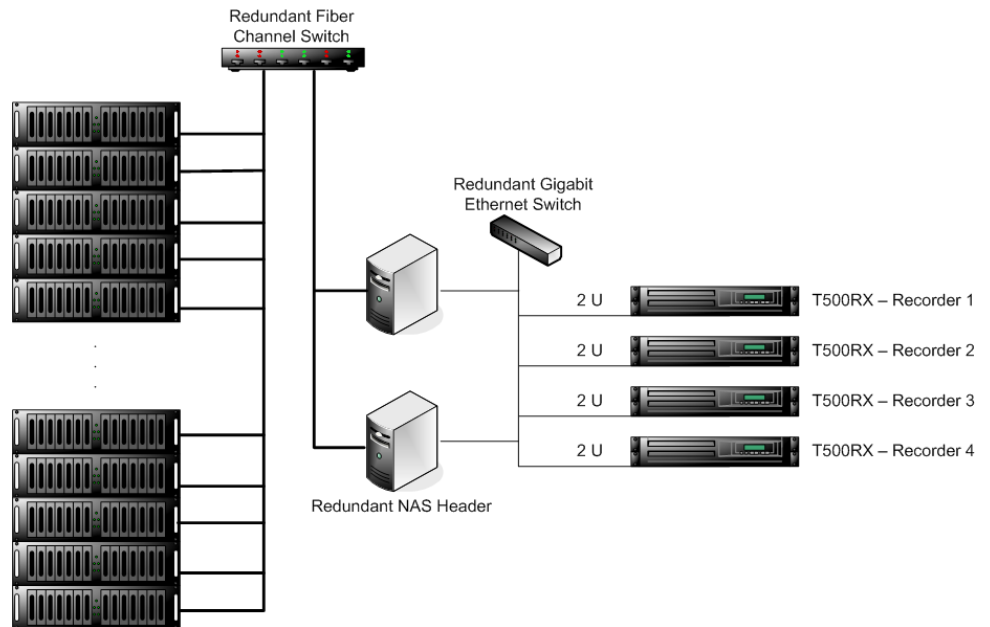
## ARCHITECTURE

In this example architecture, each T500RX is capable of ingesting up to 16 digital PCM channels (rates up to 150 Mbps per channel) and up to 8 analog channels (baseband or IF up to 40 MHz total bandwidth), or 3 high-rate digital PCM channels (rates up to 1 Gbps per channel).

Base T500RX units are equipped with 1 TB internal storage (expandable to over 3 TB internally), hot-swappable disk drives, and hot-swappable, redundant power supplies.

Each T500RX records to its own area on the Storage Array. Every recorder can play back from any other recorder's storage area.

The T500RX units failover to their own local storage in the event of a NAS failure.



Disk Arrays scalable to 100's of TB  
RAID5 with hot spares

## FEATURES

- Rack Dense Solution
- Months of Mission Data Available On-Line
- High-Rate Digital And Analog Recording At Multiple Gbps Aggregate Per Recorder
- Extremely High Availability Architecture
- Multiple High-Availability Platform Options
- Security Hardened Operating System
- Hot-Swappable Power Supplies and RAID Media
- Simultaneous Record and Playback
- Auto-Detects Input Rates and Factors Out Jitter
- Open File System Supports User Access To Recorded Files
- Limitless Capacity with External Storage Systems Using SCSI, Fiber Channel, iSCSI, Or Network File Systems (NFS, SAMBA/CIFS)
- Supports RAID 0, 1, 5, 6, 10
- Maintains Precise Time-Data and Data-Data Correlation
- Multi-Channel Recording Of Baseband And IF Signals
- IRIG Chapter 10 Compatible

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RTL-DST-T500RXSAN V3.0



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