The Universal MediaLibrary is the storage solution that features simultaneous NAS and SAN access. Files on the UML can be accessed via Fibre Channel, iSCSI, CIFS, NFS, and FTP without needing to reconfigure the system or set up gateways.

Universal MediaLibrary T-series

Enterprise-level storage for media-rich environments

Key features and operational benefits

Simultaneous NAS and SAN
- SAN: Fibre Channel or iSCSI
- NAS: CIFS, NFS, FTP
- No reconfiguration or gateways

Linear scalability
- From 72TB up to 288TB per 5RU storage matrix
- Scale-out performance of up to 17Gbps throughput per UML
- Scale-out capacity of up to 64ZB in a single global namespace

Operational flexibility
- Real-time PTA
- High-performance production
- Media factory applications

Media-centric file layout
- Space efficiency for small files and high streaming performance for large media files

Client-based bandwidth control
- Integration with LDAP and Active Directory for IT-friendly multi-user access administration

Highly availability
- RAID 6-protected drives and HA servers
- File-level mirroring and replication

The XOR Universal MediaLibrary T-series is a top-of-the-line adaptive, media-centric storage solution that offers high availability, optimum performance, high capacity, scalability, and flexible NAS and SAN connectivity for direct ingest, edit-in-place, archive, and play-to-air.

The Universal MediaLibrary (UML) is the storage solution that features simultaneous NAS and SAN access. Files on the UML can be accessed via Fibre Channel, iSCSI, CIFS, NFS, and FTP without needing to reconfigure the system or set up gateways. Being able to support both NAS and SAN in a single file system means that a company doesn't need to set up islands of storage systems for equipment requiring different types of connections. All media assets may be managed and accessed in a single global namespace.

The Universal MediaLibrary is unique in being able to support real-time play-to-air, high-performance production, and media factory applications, giving operators the ability to maximize the value of their storage investment and at the same time simplify their workflow.

The Universal MediaLibrary employs a media-centric file layout allowing space efficiency for small files and high-streaming performance for large media files. The UML is well suited for multi-user environments due to its client-based bandwidth control; integration with LDAP and Active Directory for IT-friendly multi-user access administration; and file notification for efficient media inventory management.

At the enterprise level of the UML line, the UML T-series boasts of a massive storage capacity from 72TB up to 288TB per unit or node.

The UML can scale out in capacity up to 64ZB in a single global namespace. Scale-out performance starts with up to 17Gbps throughput per node, which linearly increases as nodes are added in the cluster. Dynamic online expansion in capacity and performance happens in less than 10 seconds.

The UML T-series is reliable, with field-replaceable parts, hot-swappable drives, and redundant power supplies. It ensures no single point of failure with RAID 6 protection and High Availability servers.

Universal MediaLibrary T-series Product Specifications

	HA Server Pair	Matrix Storage Array
Chassis	Two 2RU rack-mountable servers Network Interfaces: 2x Chelsio dual port 10GigE TOE Server Head Interconnect: Primary - InfiniBand, IPMI, and RS-232 Secondary - Ethernet	5RU rack-mountable chassis Disk drives: 72 drives, 6 blades of 12 drives each Maximum drives supported per matrix: 72 x 1TB, 2TB, 3TB, or 4TB Hot swap and redundancy: Disk drives, cooling fans, power supplies, blades
Power Requirements	(Per Server Head) - Dual 720W supplies - AC Input: 3.5/1.5 A;100/240 VAC; 60/50 Hz - Maximum power draw (startup) 230W - Operating power draw 200W	Four 850W power supplies, two minimum for operation - AC Input: 10/5 A; 100-240 VAC; 50/60 Hz x2 - Maximum power draw (startup): 1300 W (1TB and 2TB) - Operating power draw: 900 W (1TB); 1200 W (2TB)
Heat Dissipation	685 BTU/hour	3100 BTU/hour (1TB),4100 BTU/hour (2TB)
Dimensions	(Per Server Head) 3.5" H x 17.2" W x 24.8" D	8.75" H x 17.7"W x 30.0" D; EIA310 compliant
Weight	(Per Server Head) 43.5 lbs (19.7 kg)	Chassis without drives: 85 lbs (38.6 kg) Chassis with seventy-two drives: 239 lbs (108.4 kg)
Operating Environment Temperature	10° C to 35° C (50° F to 95° F)	10° C to 30° C (50° F to 86° F)
Connectivity	iSCSI SAN + NAS (4 x 10GbE) or FC SAN (4 x 8Gb FC) + NAS (GbE)	
Regulatory Approval	*** FCC CFR 47 Part 15 A** - This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. *** EN55022** - Conducted emissions. European Union EMC Low Voltage Directive. *** AS/NZ3548** - In accordance with Australia/New Zealand Conducted emissions requirements for Class A, Information Technology Equipment (I.T.E.). *** VCCI** - In accordance with Japanese limits and margins of compliance to VCCI requirements. *** CE European Low Voltage Directives** - EN55024:1998 EN61000-4-2:1995 Immunity, ESD - EN55024:1998 EN61000-4-3:1995 Immunity, Radiated - EN55024:1998 EN61000-4-4:1995 Immunity, EFT - EN55024:1998 EN61000-4-5:1995 Immunity, Surge, ±2KV Common Mode, ±1KV Diff. - EN55024:1998 EN61000-4-6:1995 Immunity, Conducted RF - EN55024:1998 EN61000-4-8:1995 Immunity, Power Frequency Magnetic Field - EN55024:1998 EN61000-4-11:1995 Immunity, Voltage Variations - EN61000-3-2:2000 Harmonic Current Emissions - EN61000-3-3:2000 Voltage Fluctuations and Flicker *** CB Scheme** - IEC 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Editions 1 & 2. *** Safety** - ETL Intertek in accordance with safety standard OSHA 60950-1 Information Technology Equipment. - 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Edition 1. - CSA C22.2 No. 60950-1, Information Technology Equipment – Safety. Part 1, General Requirements Edition 1. - IEC 60950-1, Information Technology Equipment– Safety. Part 1, General Requirements Editions 1 & 2. - ROHS Compliant (Directive 2002/95/EC on the Restriction of Certain Hazardous Substances)	

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