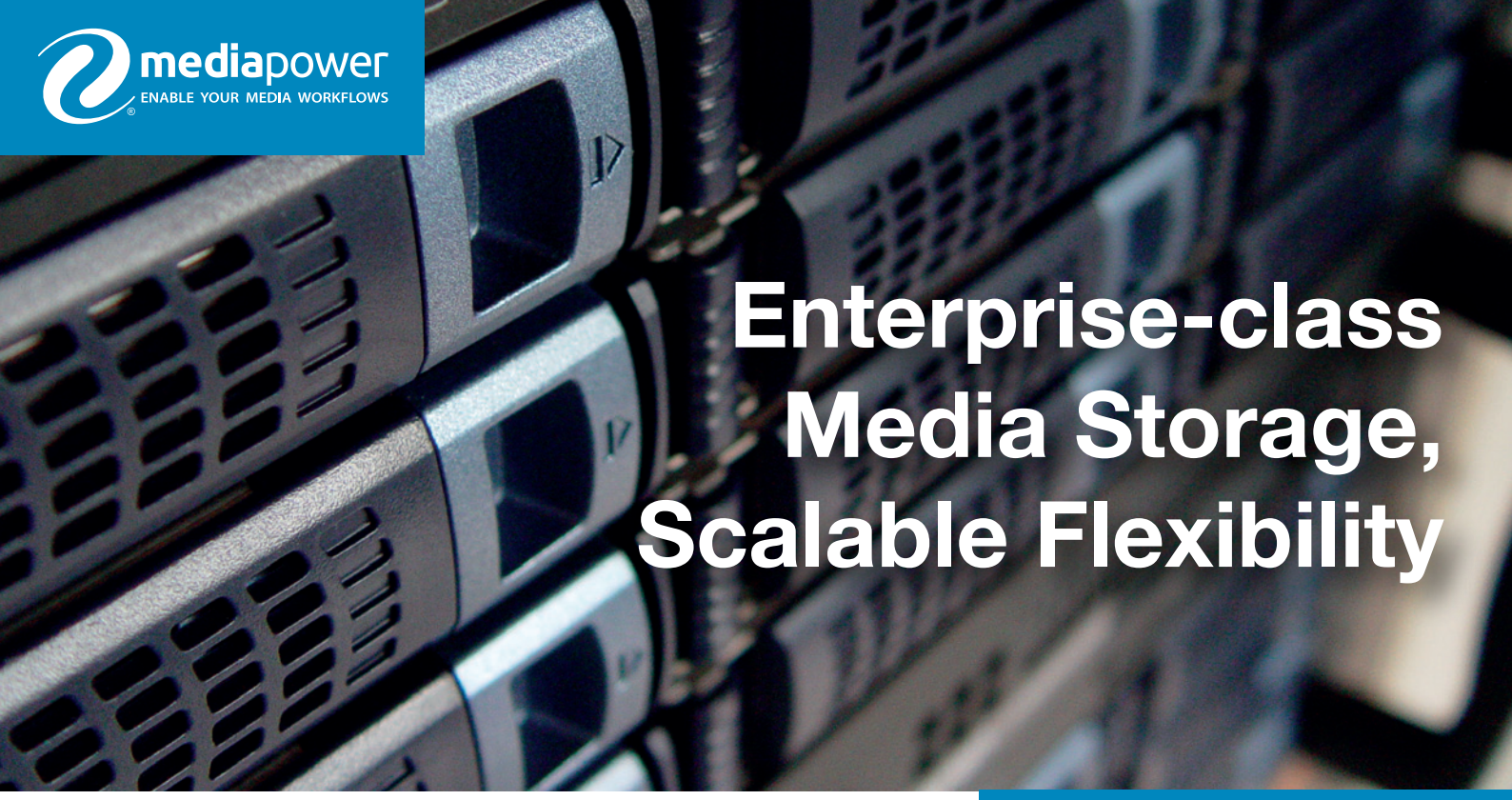
mediapower
ENABLE YOUR MEDIA WORKFLOWS



Enterprise-class Media Storage, Scalable Flexibility

Storage MX

Cost-effective Enterprise-class Media Storage

The MediaPower Storage MX or MPS-MX is a powerful NAS/SAN media storage array that achieves the performance and reliability of large enterprise storage and the flexibility and scalability of small to medium-sized systems. It is a high-density storage providing operators and production studios the capacity to store thousands of hours' worth of content in an economical footprint. It features load balancing and system failover capabilities, offering operators new levels of performance, reliability, and scalability, without limiting deployment options.

The MPS-MX is highly scalable with entry-level capacities starting at 16TB or 24TB. Base controllers can be expanded with additional 3U or 4U storage expansion shelves. Dynamic online expansion also happens seamlessly.

The MPS-MX features simultaneous NAS and SAN access. Files on the MPS-MX can be accessed via clients using iSCSI, CIFS, NFS, and FTP without needing to reconfigure the system or set up separate 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. The MPS-MX can scale out in capacity up to petabytes of storage within a single global namespace allowing all media assets to be managed.

The MPS-MX 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 MPS-MX employs media-centric file layout allowing space efficiency for small files and high- streaming performance for large media files. The MPS-MX is well suited for multi-user production environments with client-based bandwidth control, enterprise integration with LDAP and Active Directory for IT- friendly multi-user access administration, and file notification for efficient media inventory management.

The MPS-MX 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 Active- Active controllers.

Key features

NAS and SAN
- NAS: CIFS, NFS, FTP
- SAN: iSCSI, Fibre Channel
- Simultaneous access to shared media via SAN and NAS
- No gateways required

Operational flexibility
- Built-in Arkki asset management
- Real-time Broadcast Play-to-Air
- Production Editing
- Media factory applications

Media-centric file layout
- Space efficiency for small files and real-time streaming performance for large media files
- Client-based bandwidth control

Enterprise IT integration
- LDAP and Active Directory support for multi-user access control
- SNMP & WEB management

Highly availability & Redundancy
- Active-Active Controllers
- 4 x 10Gb/s Ethernet with Bonding
- Virtual IP with failover support
- RAID 6-protected arrays
- Block-level mirroring

Economical footprint
- MX16 - from 16TB (in 3U base controller) to 192TB
- MX24 - from 24TB (in 4U base controller) to 288TB

MediaPower Storage MX16 Specifications

Software	• Arkki Media Asset Management - web interface, self-service user and project based asset management, automated content discovery upon import into user defined watch folders, proxy browse and sharing via HTTP URL pointer, rough-cut content editor, transcoding and digital watermarking, system and user defined metadata, metadata and content keyword search, asset storage supporting all popular media file formats • SHAS “Media Centric” High Availability Block Storage & Disk Management – large native I/O size, write-back cache, predictive read-cache, read-around slow drives, high-availability mirror, fast failover, LUN array data striping, software RAID 0/1/5/6, fast drive rebuild, bad block recovery support, fast rejoin logic • BlueWhale Filesystem (BWFS) with high availability filesytem • Simultaneous write and read to same files via either NAS and/or SAN protocols • LDAP, Active Directory support • NTP time synchronization • SNMP and Browser based management • SES enclosure and SMART drive management • IPMI for remote access, power and chassis management • Linux CentOS 6.7 64-bit OS
System	Dual Active-Active controllers each with 2.4Ghz Intel Haswell CPU, 32GB DDR4-2133 ECC DIMM, IPMI, PCI-E NTB interconnect, 64GB SSD system disk contained in a single 3RU rack mount chassis supporting 16 x SAS2/3 3.5” hot- swappable drives
Network Connectivity	4 x 10GbE SFP+ Ethernet, Virtual-IP with Bonding support 4 x 1GbE RJ-45 CAT-5 Ethernet
Protocols	SAN (iSCSI), NAS (CIFS, FTP, NFS), HTTP
Power	• 1 + 1 920W Redundant, High-Efficiency PSUs • AC input: 100-240V, 8-5 Amps, 50-60Hz, DC output: -48 VDC, +12V/83A; +5Vsb/4A • 740W startup power draw, 720W operating power draw • Heat Dissipation: 2457 BTU/hour
Form Factor	• Dimensions: 5.2” H (132mm) x 17.2” W (437mm) x 25.5” D (648mm) • Rack Space: 3RU • Weight: 89.5 lbs (40.6 kg)
Operating Environment	• Operating temperature: 10-35 °C (50-95 °F) • Operating humidity: 20-90 %, RH, NC • Non-operating temperature: -40-70 °C (-40-158 °F) • Non-operating humidity: 5-95 %, RH, NC
Regulatory Compliance	FCC, CFR 47 Part 15 A, EN55022, VCCI, CB Scheme

MediaPower Storage MX16 Ordering Information

MX-1600-410-IP	MediaPower Storage-MX 1600, 16-bay SAS storage & dual controllers, 4x10Gb Ethernet
MX-1600-EXP	MediaPower Storage-MX 1600, 16-bay SAS Storage Expansion
MX-ARKKI-AM-STD	MediaPower Storage-MX Arkki Media Asset Management – Standard Edition

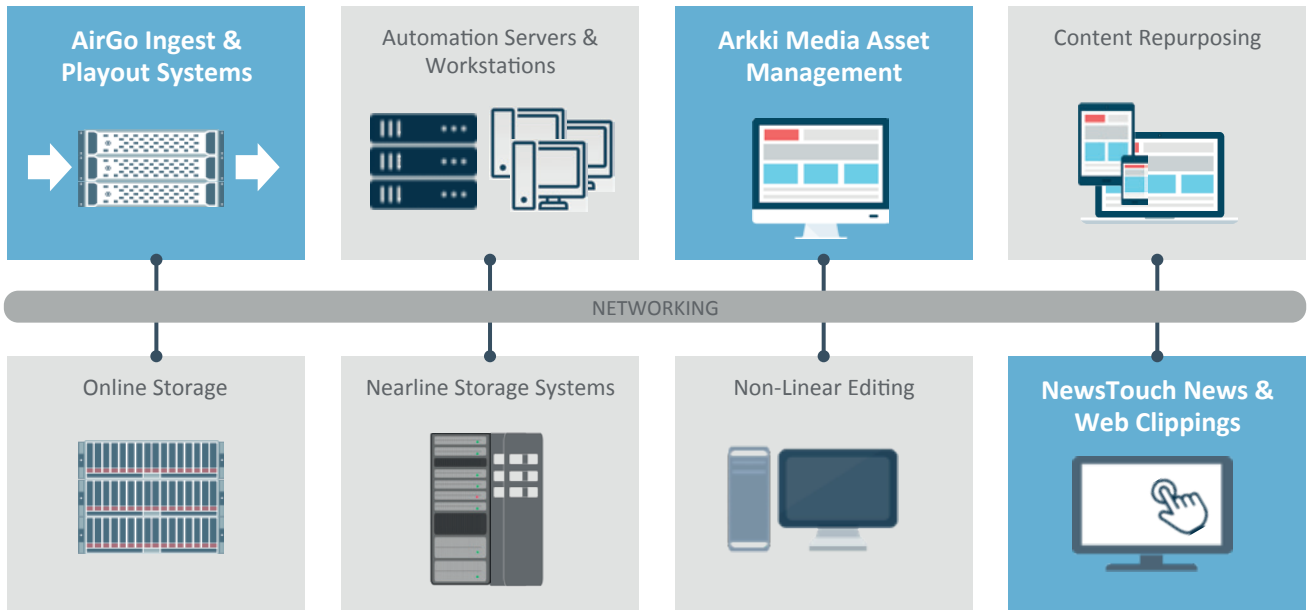
MediaPower Storage MX24 Specifications

Software	• Arkki Media Asset Management - web interface, self-service user and project based asset management, automated content discovery upon import into user defined watch folders, proxy browse and sharing via HTTP URL pointer, rough-cut content editor, transcoding and digital watermarking, system and user defined metadata, metadata and content keyword search, asset storage supporting all popular media file formats • SHAS “Media Centric” High Availability Block Storage & Disk Management – large native I/O size, write-back cache, predictive read-cache, read-around slow drives, high-availability mirror, fast failover, LUN array data striping, software RAID 0/1/5/6, fast drive rebuild, bad block recovery support, fast rejoin logic • BlueWhale Filesystem (BWFS) with high availability filesytem • Simultaneous write and read to same files via either NAS and/or SAN protocols • LDAP, Active Directory support • NTP time synchronization • SNMP and Browser based management • SES enclosure and SMART drive management • IPMI for remote access, power and chassis management • Linux CentOS 6.7 64-bit OS
System	Dual Active-Active controllers each with 2.4Ghz Intel Haswell CPU, 32GB DDR4-2133 ECC DIMM, IPMI, PCI-E NTB interconnect, 64GB SSD system disk contained in a single 4RU rack mount chassis supporting 24 x SAS2/3 3.5” hot- swappable drives
Network Connectivity	4 x 10GbE SFP+ Ethernet, Virtual-IP with Bonding support 4 x 1GbE RJ-45 CAT-5 Ethernet
Protocols	SAN (iSCSI), NAS (CIFS, FTP, NFS), HTTP
Power	• 1 + 1 920W Redundant, High-Efficiency PSUs • AC input: 100-240V, 8-5 Amps, 50-60Hz, DC output: -48 VDC, +12V/83A; +5Vsb/4A • 820W startup power draw, 800W operating power draw • Heat Dissipation: 2730 BTU/hour
Form Factor	• Dimensions: 7” H (178mm) x 17.2” W (437mm) x 25.5” D (648mm) • Rack Space: 4RU • Weight: 102.5 lbs (46.5 kg)
Operating Environment	• Operating temperature: 10-35 °C (50-95 °F) • Operating humidity: 20-90 %, RH, NC • Non-operating temperature: -40-70 °C (-40-158 °F) • Non-operating humidity: 5-95 %, RH, NC
Regulatory Compliance	FCC, CFR 47 Part 15 A, EN55022, VCCI, CB Scheme

MediaPower Storage MX24 Ordering Information

MX-2400-410-IP	MediaPower Storage-MX 2400, 24-bay SAS storage & dual controllers, 4x10Gb Ethernet
MX-2400-EXP	MediaPower Storage-MX 2400, 24-bay SAS Storage Expansion
MX-ARKKI-AM-STD	MediaPower Storage-MX Arkki Media Asset Management – Standard Edition

MediaPower MediaSuite Offerings



About MediaPower

MediaPower enables media workflows by providing products and solutions for media content production and delivery across multiple platforms. Founded in 1993, MediaPower started as an integrator of certified networking and storage solutions for the media industry such as SeaChange, DDN, NetApp, and Dalet. It has built a long-standing expertise in designing and implementing turnkey solutions and IT-based workflows in the broadcast and media industry.

Today, MediaPower also has its very own line of innovative media technology offerings such as NewsTouch, a touch-based solution for press, video, and web presentations; Arkki, the first all-in-one Media Asset Management System-in-a-box; AirGo, a highly integrated and cost effective play-to-air package that includes multi-format video server, automation, master control, and graphics; and Storage MX, a cost-effective enterprise-class media storage.

Having started in Italy & France, MediaPower now has established offices in Europe, Asia, and the US, with global presence in over 30 countries through its expansive and continually growing channels network.

While MediaPower's main markets are broadcast television, IPTV, internet TV, post-production, and Archiving, the company also provides storage solutions and specialized software applications for the automotive, air space, military, and health industries.

Also, as a key differentiator in the area of systems integration, MediaPower through its own Services organization, offers integration services to media companies and support services to broadcast and media technology providers worldwide, while delivering a unique support system to entire solutions by centralizing all support calls for any solution component into its own 24x7x365 support center.

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