MediaMaster™ Video On Demand System
Basic Media Delivery Server   MM-8200

Specifications

Height:	4U
Width:	19 inch rack
Depth:	21 in
Weight:	42 lbs*
Power:	95 W idle; 125 W loaded* UPS required

Description

The MediaMaster MM-8200 Basic Media Delivery Server is ETR's entry level server. Atop a strong foundation based on Internet-proven server technologies, this server can:

- Serve digital video titles via video-on-demand; titles may be locally uploaded, recorded via the optional MediaRecorder (MM-1138) feature, or added via content libraries such as Discovery Education and Safari Montage
- Control the classroom displays via Ethernet, RS-232 or IR
- Page arbitrary classrooms, groups of classrooms (zones) or the entire school over the video distribution system
- Schedule automatic video events: pages, looping video, etc. with the optional Playlist (MM-1160) software
- Access locally-originated camera cart (MM-1581) and legacy video sources (e.g. VHS and DVD) via IPTV
- Direct the tuning of cable, satellite, and IPTV channels by clicking the channel's logo; RF and OTA services are converted to IPTV, avoiding the need for school-wide CATV network wiring
- Integrate with the PrestoVideo (MM-1142) presentation and digital signage server, multicasting its output to any number of MM-127x or MM-177x set-top box controlled displays.
- Integrate with the MM Live Internet broadcast and VoD service
- Integrate with the school's legacy media library (e.g. Blu-ray)

Sites may use our built-in user management system or integrate with an existing LDAP server such as Microsoft's Active Directory, allowing centralized user and role management.

The server enclosure has locking doors with washable air filters and ball bearing fans. Power is cTUVus, TUV, and Energy Star certified.

Included Software

- Core server software
- Single building license for MediaController (MM-1150) and MM Administrator (MM-1185)

Included Hardware

- NVMe SSD for system software and the DBMS
- 2-4 hot-swap He-filled datacenter 3.5 in HDDs
- Dual 10GBase-T copper Ethernet; gigabit capable
- 1GBase-T IPMI port

Optional Software

- MM Playlist (MM-1160)
- PrestoVideo (MM-1142)
- MediaRecorder (MM-1138)
- MM Live (MM-2564)

Optional Features

- Hot swap power supplies
- 10 Gbit/sec SFP+ fiber connectors

Optional Features

MediaMaster part number MM-8200-DG represents the stock configuration of the server. Add or replace the following suffix codes to that to indicate optional features:

Code	Feature
A-E	CPU type: A=fastest, D=best value, E=special-purpose low-speed low-cost configuration
F	SFP+ 10 Gbit/sec fiber alternative to option code "G"; customer provides transcievers
G	10GBase-T Ethernet (stock configuration)
H	1000Base-T Ethernet (special-purpose configuration only; saves little over "G")
M	Multiple (2) CPUs, for high throughput needs; combine with A-C for more speed
P	Dual hot-swap power supplies
Q	Four-way mirroring for video storage array for greater durability and parallelism
T	Three-way mirroring; halfway between stock two-way mirroring and option "Q"

Video Storage Size

Add a numeric suffix to indicate the raw (i.e. non-redundant) size of the video array in terabytes. For example, an MM-8200DFT-24 is a fiber-connected 24 TB server in a 3-way mirrored configuration, giving 8 TB of available video array capacity. Such a configuration would be useful at a site that needs to serve a high amount of traffic for sustained periods.

Video Array Configuration Options

Configurations with 2, 3 or 4 drives are possible with this server. (See the MM-8400 and MM-8600 for systems requiring more storage.)

The standard configuration uses a single pair of hard disks in a mirrored configuration. For example, a server specified as MM-8200DG-16 has two mirrored 8 TB disks.

Changing this to an MM-8200DGT-24 would add a third 8 TB disk for dual redundancy, reducing the risks of losing the video array due to hard disk failure. It has the side benefit of allowing 3-way parallel reads, making it a good option for sites serving many different streams to many clients.

Option **Q** extends this to 4-way mirroring. Its benefit is still greater parallelism while allowing up to three disks to die before the system loses the entire array. This would be useful at a site that needs to serve a lot of popular content over sustained periods, where low downtime is critical.

Footnotes

* Server weight and fully-loaded power ratings depend on server configuration. Given values are for a single typical configuration, but each specific configuration may vary.