Modulus M2

More power, speed, and features in this extraordinary HT system

What could possibly improve upon the world's first all-in-one, integrated media source, the Modulus M1? It's the M2!

The Modulus M2 revolutionizes home and commercial video systems with a sleek new version. How about **88TB** of internal storage capacity, and even more storage can be added while in the rack without opening the case. The M2 eliminates need for NAS servers, with integrated physical **disk backup**, yet is infinitely expandable with NAS server support. We added an internal **UHD 4K disc drive**, new **bleeding-edge 4K graphics,** and CPU technology that make using the M2 a thrill for its speed and visual clarity. The M2's **video-over-IP** makes matrix switchers obsolete!

- **Premium DVR** for cable or antenna TV that records 6 channels at once, **auto-skips commercials**, and enables whole-home TV without set-top boxes or RF cabling
- **Advanced Movie Server** that can import up to 6 UHD discs in parallel and upscale Blu-ray content to 4K quality
- **Streaming Player** that can **Record** movies and shows from any streaming service
- **UHD 4K Optical Drive** that can *play and import* UHD Blu-ray's, DVDs, CDs & more
- Import, store and enjoy **Home Videos**, photos, and musical recordings

- Up to 88TB of **Internal Storage** for 18,000 DVR hours / 11,000 DVDs / 2,400 Blu-rays / 1,200 UHD discs
- Supports **NAS** servers for unlimited storage
- Comprehensive **User Settings** including parental controls
- Optional **Integrated Backup**
- **Distribute** live / recorded TV, movies, music, and more over Ethernet with the **Mx1 Mini**
- **Remote content playback** via IOS and Android apps
- Supports major **Smart Home Control Systems**
- Rechargeable **RC-1 Remote** controls all M2 functions with integrated QWERTY keyboard, earphone jack, air mouse, and user-friendly voice command

6500 River Place Boulevard
Bldg. 7, #250; Austin, TX 78730; +1-512-953-9600
www.modulusmediasystems.com
info@modulusmediasystems.com

All specifications subject to change without notice

Modulus M2 Specifications

Specification	
Product Dimensions	86mm H x 443mm W x 262mm D
Power Supply	120/240V, 90W, 12V DC power adapter
Shipping Weight	16.8 lbs. (w/ 1 HDD) / 22.8 lbs. (w/ 4 HDDs)
Operating System	Modulus O.S. (based on Linux kernel 6.02+)
System / Application Storage	128GB internal M.2 Solid State Device (SSD)
Media Storage	4 x 3.5" SATA 6Gb/s high-speed disk drive bays Disks may be added from front, while in rack 18TB - 88TB internal HDD storage (or 8TB – 60TB internal SSD storage) LVM: 1 expandable file-system for all storage NAS server support permits unlimited storage External USB drive support extends internal storage
Integrated Backup (option)	2 physical disks designated for media backup Hardware support for RAID 0, 1, 5, and 10
CPU	Intel 12th-Gen G7400TE @ 3.0 GHz, 7nm litho 6MB Smart Cache, PCI 5.0, hyperthreaded cores
Memory	8GB (2x 4GB DDR4, 4000 MHz)
Video / GPU	Intel UHD Graphics 710: 1.35 GHz GPU HDMI 2.1 (4096x2160 @ 60 Hz), with HDCP 2.3 Intel Clear Video HD Technology + Intel QuickSync A/V input support for webcams (for office apps)
Audio	HDMI audio: PCM or bitstream passthrough modes PCM mode decodes digital audio; passthrough mode uses external decoders Realtek ALC4080 analog Codec, supports DTS:X Ultra
Networking	Intel 2.5GbE Ethernet LAN chip Wi-Fi 6: WIFI a, b, g, n, ac, ax; 2.5+5 GHz dual-band Bluetooth 5.2

All specifications subject to change without notice

Modulus M2 Specifications

UHD / Blu-Ray / DVD / CD discs	Ultra-thin tray-load UHD / BD / DVD / CD optical drive Up to 4 simultaneous imports (w/ accessory drive) remote Mx1 disc import into M2 (w/ accessory drive) Support for audiophile music formats: SACD, DSD, DSF, OGG, FLAC
DVR Recording Capacity	Up to 18,000 hours
Internal Movie Disc Capacity	Up to 11,000 DVD / 2,400 Blu-ray / 1,200 UHD discs M2 servers may be pooled to support up to 4x more NAS server support permits unlimited storage
Specification	
Internal Music CD Capacity	Up to 100,000 Compact Discs
Inputs	3 x USB 3.2 Gen 2 Type-A ports (red) 2 x USB 3.2 Gen 1 ports 2 x USB 2.0 ports RF: RG-59 Coaxial CableCard: M-Card multi-stream (U.S.) 2 x SMA WiFi antenna connectors (2T2R)
Outputs	1 x HDMI, up to 4096x2160 @ 60Hz 1 x 2.5GbE RJ-45 port 1 x analog audio jacks
# Simultaneous TV recordings	Cable Tuner - up to 6 per M2; OTA Tuner - up to 8
Maximum # of Modulus Clients	16 (Mx1) clients per M2 server can chain M2 servers to support hundreds of clients
LED Indicators	2 x RGB LED power + status indicators
Remote Content Playback	Support for Android & iOS devices (phones, tablets, and laptops), browsing and playback No need to open ports in home firewall Supported content: Recorded TV, Collections, Movie Library (disc & video file content); Music Library, Recorded Streaming Library, Personal Videos, and Personal Photos

6500 River Place Boulevard
Bldg. 7, #250; Austin, TX 78730; +1-512-953-9600
www.modulusmediasystems.com
info@modulusmediasystems.com

All specifications subject to change without notice

Modulus Remote Control Specifications

Specification	
Communication Technology	RF for Modulus buttons, air mouse, and voice input; IR for learning and control of other devices (TV/Receiver)
Buttons	**Front:** Power, Mouse, Home, Menu, Guide, Exit, Comm Skip, L/R/Up/Dn, Select, FF/Rev, Record, Ch +/-, Last Ch, Vol +/-, Mute, Play/Pause, Mic Talk, Audio, Settings, Input, Delete, Info, Numeric keys **Back:** full physical QWERTY keyboard
Air Mouse	Motion tracking select (auto-disables during keyboard use)
Voice Input	Mic, supports both commands and search phrases
Headphone Jack	Mini-audio jack for headphone / earphone private listening
IR Learning	Accepts IR codes from other remotes supporting basic device functions (Power, Vol up, Vol down); all other functions (e.g., mute, channels, menus, etc.) are controlled by Modulus
Control via HDMI	CEC standard support: optional control of other HDMI-connected devices (e.g., TV, Receiver ...)
Backlighting	All keys are auto-backlit on motion, both front and back sides
Power / Docking Station	Extended-life 800mA rechargeable battery, with included fast-charge docking station; may also be charged through any USB 3.0/2.0 device