

ADAM-M Matrix Intercom



Engineered with the latest design technology, the ADAM-M Matrix Intercom bridges legacy with innovation. The sleek design provides 128+ ports in an extremely compact 3 **RU** (Rack Unit) package, with full redundancy of the master controllers and power supplies. ADAM-M is available with a wide variety of interface cards in the industry, which includes the MADI-16, OMI, AIO-16, AES-3, and RVON VoIP interfaces. It also supports existing ADAM wiring schemes and options.

Built for world wide use, the chassis plugs and plays anywhere, running on 90–264VAC at 50/60Hz.

The chassis is built with hot-swappable components (including cooling modules), and improved status reporting.

Features

- The ADAM-M supports 128+ ports in a 3RU unit, giving more functionality with less rack space used.
- The ADAM-M includes provisions for expanded backcards to increase wiring options and simplicity.
- Every ADAM-M is equipped with two (2) master controllers that are fully redundant to each other, so if one fails the other one will take over.
- The ADAM-M, utilizing existing cables and bus expanders, integrates and expands existing intercom systems into larger systems with minimal effort.
- The I/O cards in the ADAM-M are fully hot-swappable, but the power supplies and fans are also completely removable, making replacement and maintenance easier than ever.
- The ADAM-M supports existing legacy products, such as the AIO-16, RVON-16, MCII-e, Tribus, and MADI-16, as well as our next generation of cards.

Specifications

General

Matrix Size: 16–128 ports, frame expandable up to 880 ports

Cards Supported

AIO-16: 16 Analog ports with individual, bi-directional data 15Hz to 20kHz, SNR with 21dBu signal output (A-weighted): 84dB (typ.) / 81dB (min.)

MADI-16 Plus: 16 to 64 channels of MADI

RVON-16: 16 VoIP ports supporting G.711, G.729A, and G.723

Tri-Bus: Triple Bus Expander for linking between ADAM-M and other ADAM frames

MCII-e: Ethernet Master Controllers in redundant configuration

Electrical

Universal PSU 90V to 264V 50/60Hz

Environmental

Temperature

Operating: 0°C to +50°C (+32°F to +122°F)

Storage: -40°C to +55°C (-40°F to +131°F)

Humidity: 0 to 95% non-condensing

Dimensions

Height: 5.25" (133.35mm) 3RU

Width (frame with rack ears): 19" (482.6mm)

Depth: 20" (508mm)

Weight: 22.05lbs (10.00kg)

Approvals

UL, CE, FCC, RoHS, WEEE, and CB Scheme

Order Information

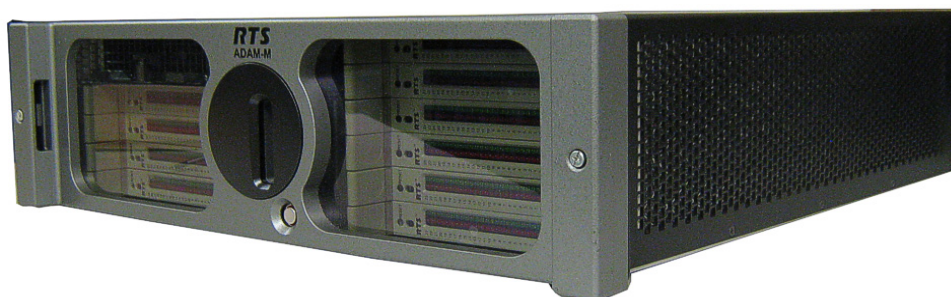
ADAM-M-US • ADAM-M • ADAM-M Intercom Frame (US)

ADAM-M-EU • ADAM-M • ADAM-M Intercom Frame (EURO)

ADAM-M-UK • ADAM-M • ADAM-M Intercom Frame (UK)

ADAM-M-NC • ADAM-M • ADAM-M Intercom Frame (No Cord)

The specification information is subject to change without notification.
Brand names mentioned are the property of their respective companies.



F01U163627

ADAM-M Matrix Intercom

Reengineered with the latest design and technology, the ADAM-M Matrix Intercom bridges legacy with innovation. The sleek redesign provides 128+ ports in an extremely compact 3RU package, with full redundancy on the master controllers and power supplies. The Matrix frame supports all current ADAM cards, including AIO-16, RVON-16, MADI-16 Plus, Tribus, and MCII-e controllers. It also supports existing ADAM wiring schemes and options.

Built for the entire world and the REAL world, the chassis plugs and plays anywhere, running on 90-264VAC at 50/60 Hz.

The chassis is built with improved low noise cooling, hot-swappable components (including cooling modules), and improved status reporting.

Features

Port Density

The ADAM-M supports 128+ ports in a 3RU unit, giving more functionality with less rack space used.

Redundant Master Controllers

Every ADAM-M is equipped with two (2) master controllers that are fully redundant to each other, so if one fails the other will take over until the failed controller can be brought back online.

Power System

The ADAM-M has two (2) fully redundant, hot-swappable power supplies that work from 90-264VAC, 50/60Hz with low noise cooling and advanced status reporting capabilities. UL, CSA, CE, VDE, FCC, and PSE approved.

Compatibility Bridging with Past and Future

The ADAM-M supports existing legacy products, such as the AIO-16, RVON-16, MCII-e, Tribus, and MADI-16, as well as our next generation of cards.

Extended Backcard Capabilities

The ADAM-M includes provisions for expanded backcards to increase wiring options and simplicity.

Integration/Expansion

The ADAM-M, utilizing existing cables and bus expanders, integrates and expands existing intercom systems into larger systems with minimal effort.

Hot-Swappable Components

Not only are the I/O cards in the ADAM-M hot-swappable, but the power supplies and fans are completely removable, making replacement and maintenance easier than ever.

Ordering Information

Part Numbers

ADAM-M (US), F01U173325

ADAM-M (EURO), F01U173326

ADAM-M (UK), F01U173327

ADAM-M (No Cord), F01U173328

Specifications

General	Matrix Size – 16-128 ports, frame expandable up to 1000 ports										
Cards Supported	AIO-16: 16 Analog ports with individual, bi-directional data 15Hz to 20kHz, >90dB A-weighted S/N MADI-16 Plus: 16 to 64 channels of MADI RVON-16: 16 VoIP ports supporting G.711, G.729A, and G.723 Tri-Bus: Triple Bus Expander for linking between ADAM-M and other ADAM frames. MCII-e: Ethernet Master Controllers in redundant configuration.										
Electrical	Universal PSU 90V to 264V 50/60Hz Relay Status Connection - DB-9 (female) <table><tr><td>Pin 1 – NO</td><td>Pin 6 – Common</td></tr><tr><td>Pin 2 – NC</td><td>Pin 7 – N/A</td></tr><tr><td>Pin 3 – N/A</td><td>Pin 8 – N/A</td></tr><tr><td>Pin 4 – N/A</td><td>Pin 9 – N/A</td></tr><tr><td>Pin 5 – N/A</td><td></td></tr></table>	Pin 1 – NO	Pin 6 – Common	Pin 2 – NC	Pin 7 – N/A	Pin 3 – N/A	Pin 8 – N/A	Pin 4 – N/A	Pin 9 – N/A	Pin 5 – N/A	
Pin 1 – NO	Pin 6 – Common										
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Environmental	Temperature Operating: 0°C to +50°C (+32°F to +122°F) Storage: -40°C to +55°C (-40°F to +131°F) Humidity: 0 to 95% non-condensing Dimensions Height: 5.25" (133.35mm) 3RU Width (frame with rack ears): 19" (482.6mm) Depth: ≤20" (508mm) Weight: ≤22.05lbs (10.00kg)										
Approvals	UL, CSA, CE, VDE, FCC, PSE, REACH, RoHS, WEEE, CCC, KC, ACMA C-Tick, China RoHS, and IECCE CB Scheme										

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Cards Supported

- **AIO-16:** 16 Analog ports with individual, bi-directional data
- **15Hz to 20kHz,** >90dB A-weighted S/N
- **MADI-16 Plus:** 16 to 64 channels of MADI
- **RVON-16:** 16 VoIP ports supporting G.711, G.729A, and G.723
- **DBX:** Dual Bus Expander for linking between ADAM-M and other ADAM frames.
- **Tri-Bus:** Triple Bus Expander for linking between ADAM-M and other ADAM frames.
- **MCII-e:** Ethernet Master Controllers in redundant configuration.

Electrical

- **Universal PSU** 90V to 264V 50/60Hz

Environmental

- **Temperature**
- **Operating:** 0°C to +50°C (+32°F to +122°F)
- **Storage:** -40°C to +55°C (-40°F to +131°F)
- **Humidity:** 0 to 95% non-condensing

Dimensions

- **Height:** 5.25" (133.35mm) 3RU
- **Width (frame with rack ears):** 19" (482.6mm)
- **Depth:** ≤20" (508mm)
- **Weight:** 27.6lbs(12.519kg) – no cards installed

Approvals

- **UL, CSA, CD, VDE, FCC, PSE, REACH, RoHS, China RoHS, WEEE, CCC, ACMA C-Tick, and IECCEB Scheme.**

Ordering Information

ADAM-M

Digital Matrix

Catalog Number: F01U163627

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