

GENERAL INFORMATION

The Unison Mosaic Show Controllers™ 1 and 2 offer many built-in interface options. When those are not enough, you can add on up to two Mosaic Expansion Modules per MSC1 or 2 – each specific to a protocol or purpose.

APPLICATIONS

- Integration with 3rd Party control products
- Interface with Digital Addressable Lighting Interface (DALI) control systems

FEATURES

- **DMX Input Expansion Module** - allows one or more MSC's to be controlled by any DMX512-compatible system. Configure DMX channels as triggers for intensity or color control.
- **RS485 Expansion Module** - allows one or more Mosaic Show Controllers to receive and generate serial command strings
- **Audio Expansion Module** - manipulates intensity, color, and timeline playback for sound-to-light effects.
- **Timecode Expansion Module** - reads all Linear Timecode (LTC) formats including film, PAL/EBU, NTSC, and SMPTE so that you can synchronize your design with audiovisual or show-control equipment.
- **DALI Master Expansion Module** - Control up to 128 Digital Addressable Lighting Interface (DALI) ballasts per Mosaic Show Controller.
- **DALI Slave Expansion Module** - Use the DALI protocol to trigger one or more Mosaic Show Controllers.

GENERAL

- ETL/cETL Listed
- CE Compliant

ORDERING INFORMATION

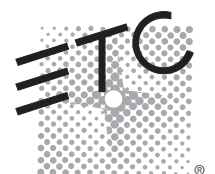
Unison Mosaic Expansion Modules

MODEL	DESCRIPTION
MSC-DMX	Mosaic DMX Input Expansion Module
MSC-AUDIO	Mosaic Audio Input Expansion Module
MSC-LTC	Mosaic Linear Timecode Expansion Module
MSC-RS485	Mosaic RS484 Serial Expansion Module
MSC-DALIM	Mosaic DALI Master Expansion Module
MSC-DALIS	Mosaic DALI Slave Expansion Module

Note: Up to two Mosaic Expansion Modules can be used with each Mosaic Show Controller (MSC1 or MSC2)

Compatible Unison Mosaic Show Controllers

MODEL	DESCRIPTION
MSC1	Unison Mosaic 512 Channel Show Controller
MSC2	Unison Mosaic 1024 Channel Show Controller



SPECIFICATIONS

DMX INPUT (MSC-DMX)

- Allows one or more networked Mosaic Show Controllers to be triggered using DMX512
- Configure multiple DMX channels as triggers or real time control variables
- Optically isolated DMX512 transceiver
- RDM Compatible

AUDIO (MSC-AUDIO)

- Allows one or more networked Mosaic Show Controllers to provide real-time manipulation of control to create sound-to-light effects
- 5-band spectrum analyzer supports 63Hz, 250Hz, 1KHz, 3.5KHz, and 12KHz frequency
- Balanced line level audio input
- Software adjustable gain

TIMECODE (MSC-LTC)

- Allows one or more networked Mosaic Show Controllers to respond to all Linear Time Code formats for playback synchronization with other show control equipment
- Adjustable frame rate
 - 24 frames per second (Film)
 - 25 frames per second (PAL/EBU)
 - 29.97 frames per second (NTSC)
 - 30 frames per second (SMPTE)
- Balanced line level audio input
- Jump, slow, and fast-code support in both directions
- "Fly-wheel" and error correction routines

RS485 (MSC-RS485)

- Allows one or more networked Mosaic Show Controllers to generate RS485 serial strings for integration with external 3rd party products
- Optically isolated transceiver
- Half-duplex operation up to 500K baud

DALI MASTER (MSC-DALI-M)

- Allows a single Mosaic Show Controller to control up to 128 DALI Ballasts (64 per DALI-M module)
- Fully compliant with EN60929
- Interrogation of connected ballasts using integrated Web server

DALI SLAVE (MSC-DALI-S)

- Allows one or more networked Mosaic Show Controller to be triggered by an external DALI controller
- Fully compliant with EN60929
- Integration of Mosaic Show Controllers from DALI controller
- Supplement DALI installations with LED Lighting and show control functionality.

SPECIFICATIONS

GENERAL

- Expansion Modules programmed and configured using Unison Mosaic Designer Software

FUNCTIONAL

- Support for up to two expansion modules per compatible Mosaic Show Controller
- Remote Firmware Upload

MECHANICAL

- 4 unit wide DIN Enclosure
- Aluminum case with Plastic mounting base
- Mounting complies with DIN43880 and EN60715
- All connections use standard plugable connectors

ELECTRICAL

- Powered from Mosaic Show Controller using 25 pin D-style connection

THERMAL

- Ambient temperature: 0-50°C / 32-122°F

PHYSICAL

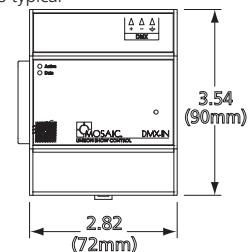
Expansion Module Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
All Models	3.54	90	2.83	72	2.28	58

Expansion Module Weight*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
All Models	1.0	0.23	0.5	0.48

*Weights and dimensions typical



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