ETC

Unison Mosaic Show Controller

Control Series



GENERAL INFORMATION

Mosaic Show Controllers (MSCs) are the permanent part of your installation supporting DMX512 and DMX-Over-Ethernet protocols to control color-mixing fixtures, conventional dimmable fixtures and automated lights. MSCs are available with 512-2048 outputs with support for up to 40 controllers in a single system. Each MSC has an extensive range of external triggering interfaces, including Ethernet, RS232/RS485 Serial or DMX Input, MIDI, and contact inputs. The built-in real-time clock triggers precise timed events, including astronomical and lunar events. Additional triggering interfaces are supported by optional MSC Remote Devices attached over a PoE Ethernet network.

APPLICATIONS

- LED lighting control
- Pixel mapping
- Show control and lighting integration

FEATURES

- Playback for a wide range of fixture types and DMX devices
- Pixel mapping for video effects
- DMX-over-Ethernet and standard DMX output
- Built in triggering interface with conditional logic and timeclock based controls
- RealEngine: ensures an accurate representation of your show, whether in software simulation or when played live to connected controllers
- DesignerAccess: Internal web server provides status, configuration information, remote monitoring, and triggering
- Installer friendly for permanent installation with rising clamp terminal connections and DIN-rail installation
- Programmed and configured using Mosaic Designer Software

REGULATORY AND COMPLIANCE

- cETLus Listed
  - Conforms to UL-60950-1
  - Certified to CAN/CSA-C22.2 No. 60950-1
- CE Compliant
- California Title 20/24 compliant

ORDERING INFORMATION

Show Controllers

MODEL	DESCRIPTION
MSC_[1]	Mosaic Show Controller

[1] Available with one(1), two(2) or four(4) DMX universe output(s)

Accessories

MODEL	DESCRIPTION
MSC-RACK-1	Mosaic Rack Mount Kit (1 Controller)
MSC-RACK-2	Mosaic Rack Mount Kit (1 Controller and 1 RIO)
MSC-RACK-3	Mosaic Rack Mount Kit (2 Controllers or 1 Controller and 2 RIOs)
DIN*	DIN rail Installation Enclosures (Multiple Sizes)
MSC-PS	Mosaic 48V DIN-rail Power Supply

Related Show Controllers

MTPC	Tessera Panel Controller
MSCX	High Capacity Show Controller
MALC	Mosaic Atlas
MALCP	Mosaic Atlas Pro

Related Products

MODEL	DESCRIPTION
M108-__	Button Station
M-TS	Mosaic Touchscreen
MRIO-A	Audio/Timecode Remote Device
MRIO-D	DALI Remote Device
MRIO-I/O[3]	Input/ Output Remote Device w/ Serial
MSC-NET	Five-port Ethernet Switch w/ PoE
MSC-OPTO	Four-port DMX/RDM Splitter

SPECIFICATIONS

GENERAL

- Available with 512 -2048 outputs
  - MSC1 - 512-channel output
  - MSC2 - 1024-channel output
  - MSC4 - 2048-channel output
- Support for DMX512/RDM and DMX-over Ethernet control output
  - Supports streaming ACN, KiNet, Pathport, and ArtNet
  - Supports multiple protocol outputs simultaneously
- Battery-backed real-time, astronomical and lunar timeclock
- Simple integration with other Mosaic devices for large systems, including MSCX and Atlas Controllers
- Solid-state, high-reliability components
- Five year warranty

FUNCTIONAL

- Control for LED fixtures, fountain jets, and moving lights
- Scalable up to 40 Mosaic controllers using standard PoE Ethernet networking
- Project data stored in non-volatile, solid-state memory
- Resumes output automatically upon receiving power
- Supports conditional logic and scripting for integration
- Triggering and show-control integration using Ethernet, RS232/485, DMX, MIDI, digital/analog inputs and optional remote devices
- Software and configuration upload using Ethernet
- Shares onboard input status to other controllers on the network
- Integrated web server provides active monitoring and remote triggering using Ethernet

MECHANICAL

- Eight-unit-wide DIN Enclosure complies with DIN43880 and EN60715 (35/7.5 rail)
- Rugged aluminum enclosure
- Wiring connections use plug-able rising clamp terminals
- Optional rack and wall mount installation kits available

ELECTRICAL

- RJ45 socket supporting 10/100Base-TX Ethernet with link and data LED with static and DHCP addressing support
- PoE powered (IEEE 802.3af, Class 2) or 9 V to 48 V DC power input, 4 W typical draw
- Isolated DMX512 ports, RDM compatible
- Eight individually selectable digital/ analog inputs
  - Supports active high/ low, analog and contact closure
- RS232/485 serial or DMX triggering using 3-pin connector
- MIDI input and output using 5-pin DIN connectors

THERMAL

- Ambient temperature: 0°–50° C (32°–122° F)
- 10–50% relative humidity, non-condensing

PHYSICAL

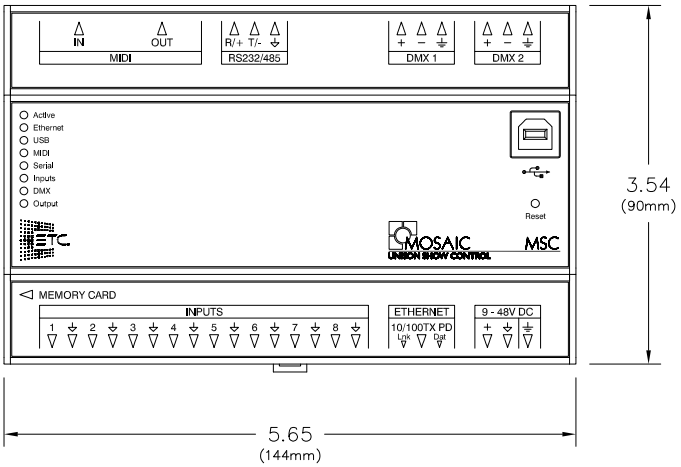
Show Controller Dimensions*

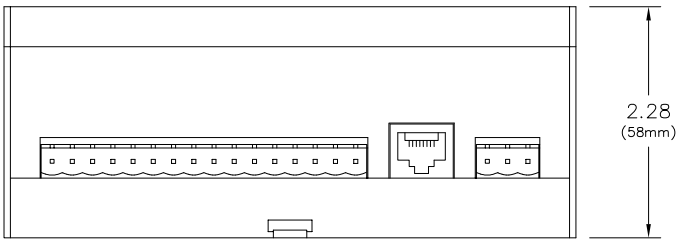
MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
MSC_	3.54	90	5.65	144	2.28	58

Show Controller Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
MSC_	1.0	0.48	1.8	0.80

*Weights and dimensions typical





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