

GENERAL INFORMATION

The Unison Mosaic Show Controllers (MSCs) are the permanent part of your installation. The Mosaic Show Controllers (MSC1, MSC2 and MSC4) support DMX512 and DMX-Over-Ethernet protocols to control color-mixing fixtures, conventional dimmable fixtures and automated lights. MSC1 offers one DMX universe – 512 channels (or, 170 RGB color-mixing units), MSC2 offers two universes – 1024 channels (or, 340 RGB color-mixing units), and MSC4 offers four universes – 2048 channels (or, 680 RGB color-mixing units). Per universe, you can choose to output DMX512 directly to your devices or send the data to your network using DMX-over-Ethernet protocols. Each MSC has the same extensive range of external triggering interfaces, including Ethernet, RS232 or RS485 Serial, DMX Input, MIDI, and digital inputs. The built-in real-time clock triggers precise timed events, including ‘sunrise’ and ‘sunset’ astronomical cues. Additional triggering interfaces are supported by optional MSC Remote Devices attached over an Ethernet network.

APPLICATIONS

- LED Lighting Control
- Pixel mapping
- Show Control and Lighting Integration

FEATURES

- Programmed and Configured using Mosaic Designer Software
- RealEngine – ensures an accurate representation of your show – whether in software simulation or when played live to connected controllers
- LiveControl – Live output of your Mosaic show file to connected Mosaic Controllers and fixtures during simulation
- DesignerAccess – Internal Web server with active pages providing status, configuration information, remote monitoring, and remote show uploads
- QuickChange – Show data is stored on a removable flash memory card, which can be transferred to another MSC if required

GENERAL

- ETL/cETL Listed
- CE Compliant

ORDERING INFORMATION

Unison Mosaic Show Controllers

MODEL	DESCRIPTION
MSC1	Unison Mosaic 512 Channel Show Controller
MSC2	Unison Mosaic 1024 Channel Show Controller
MSC4	Unison Mosaic 2048 Channel Show Controller

Unison Mosaic Remote Devices and Accessories

MODEL	DESCRIPTION
MRIO-A	Mosaic Remote Audio/Timecode Device
MRIO80	Mosaic Remote I/O Device with 8 Inputs
MRIO44	Mosaic Remote I/O Device with 4 Inputs and 4 Outputs
MRIO08	Mosaic Remote I/O Device with 8 Outputs
MSC-NET	5-port Ethernet Switch w/ PoE
MSC-OPTO	4-port DMX/RDM Opto-Splitter
MLED-V	Mosaic Constant Voltage LED Driver
MLED-C*	Mosaic Constant Current LED Driver

\*Multiple versions available. See product data sheet.

Unison Mosaic Stations

MODEL	DESCRIPTION
M108-__	1-gang, 8-Button Station
MTPC	Unison Mosaic Tessera Panel Controller



## SPECIFICATIONS

## GENERAL

- Mosaic MSC1
  - 512 channel output
- Mosaic MSC2
  - 1024 channel output
- Mosaic MSC4
  - 2048 channel output
- Support for DMX512/RDM, sACN, ETCNet2, KiNet, Pathport, or Art-NetII output
  - One protocol may be used for each 512 channel segment
- Integrated real and astronomical time clock
- Triggering and show control integration using Ethernet, RS232/485, DMX, MIDI and digital/analog inputs
- Integrated web server for remote management
- Programmed and configured using Unison Mosaic Designer Software
- Simple integration with other Mosaic devices for large systems including MSC X and Audio Video Controller (AVC)

## FUNCTIONAL

- Scalable up to 40 Mosaic Show Controllers using standard Ethernet networking
- Project data stored in non-volatile, solid-state memory
- Resumes output automatically upon receiving power
- Supports conditional logic and scripting for powerful integration
- Software and configuration upload using USB or Ethernet
- Integrated web server provides with active monitoring and remote triggering using Ethernet or USB
- Remote management and upload of configuration using RemoteManager software application

## MECHANICAL

- 8 unit wide DIN Enclosure
- Mounting complies with DIN43880 and EN60715 (35/7.5 rail)
- All connections use standard pluggable connectors

## ELECTRICAL

- 9V to 48V DC power input
- Supports PoE power input (IEEE 802.3af)
- Isolated DMX512 ports
- RDM Compatible
- Eight individually selectable digital or analog inputs
  - Support active high, active low, or contact closure
- 10/100Base-TX Ethernet using RJ45 connection
- USB using USB-B connection
- RS232/485 Serial or DMX triggering using 3-pin connector
- MIDI input using 5-pin DIN connector
- MIDI output using 5-pin DIN connector
- ETL and cETL Listed, CE compliant

## THERMAL

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

## PHYSICAL

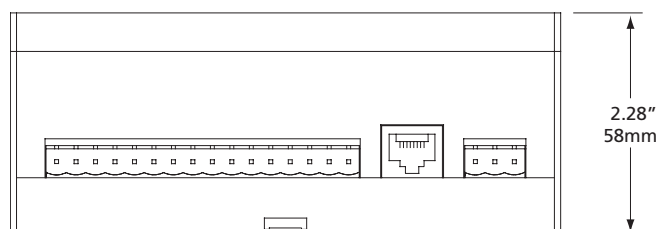
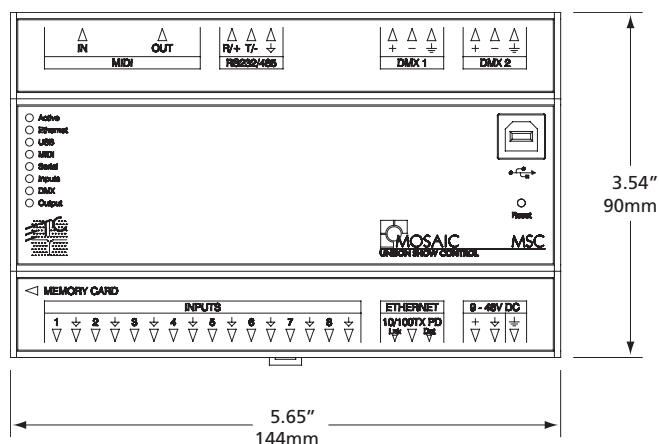
## Unison Mosaic Show Controller Dimensions\*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
MSC	3.54	90	5.65	144	2.28	58

## Unison Mosaic Show Controller Weights\*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
MSC	1	0.48	2	0.85

\*Weights and dimensions typical



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Protected by one or more of the following U.S. Patent Numbers 6,016,038; 6,150,774; 6,166,496; 6,211,626; 6,292,901; 6,340,868; 6,459,919; 6,528,954; 6,548,967; 6,577,080; 6,608,453; 6,624,597; 6,636,003; 6,717,376; 6,720,745; 6,774,584; 6,777,891; 6,781,329; 6,788,011; 6,801,003; 6,806,659; 6,869,204; 6,883,929; 6,888,322; 6,897,624; 6,936,978; 6,965,205; 6,967,448; 6,969,954; 6,975,079; 7,014,336; 7,031,920; 7,038,398; 7,038,399; 7,042,172; 7,064,498; 7,113,541; 7,132,635; 7,132,785; 7,132,804; 7,135,824; 7,139,617; 7,288,190; 7,231,060; Canadian Patent: CA 2,302,227; Hong Kong Patent: HK 1025416; Australian Patents: AU 757000; AU 2003203584; European Patents: EP 1 016 062 B1; EP 1 224 845 B1; EP 1 234 140 B1; DE 698 07 092 C0; DE 600 21 911 C0; DE 600 23 730 C0