ETC

Unison Mosaic Tessera Controller

Control Series

Type(s)

Project

Date

Notes

GENERAL INFORMATION

The Mosaic Tessera Controller is a permanent part of your installation providing a touchscreen user-interface with up to 512 addresses of DMX-over-Ethernet to control color-mixing fixtures, conventional dimmable fixtures and automated lights.

Each MTPC supports onboard triggering over Ethernet and user input at the touchscreen. Additional channels and triggering interfaces are supported by optional remote devices or additional controllers connected over a PoE Ethernet network. The built-in time clock triggers precise timed events, including real-time, astronomical and lunar cues.

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

FEATURES
- Integrated show control and user interface
- Fully configurable touchscreen Interface
- 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
- 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
MTPC-__	Unison Mosaic Tessera Panel Controller

Enter station color code in __ space provided:
- 1 = Cream (RAL9001)
- 4 = Black (RAL 9004)
- 5 = White (RAL9003)

Accessories

MODEL	DESCRIPTION
MTPC-RIO	Tessera Remote Input/Output Device
MTPC-RK	Tessera Rack-Mount Kit

Related Show Controllers

MODEL	DESCRIPTION
MSC	Mosaic Show 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	Input/ Output Remote Device w/ Serial
MSC-NET	Five-port Ethernet Switch w/ PoE
MSC-OPTO	Four-port DMX/RDM Splitter

SPECIFICATIONS

GENERAL

- Touchscreen controller with user-customizable interface with support for button, slider and color picker controls
  - 4.3" capacitive touch display
  - 480 x 272 resolution, 24-bit color
- 512-channel DMX-over Ethernet control output
  - streaming ACN (sACN), KiNet, Pathport, or ArtNet output
  - Supports multiple protocol outputs simultaneously
  - Supports DMX output when used with optional TPC-RIO
- Battery-backed real-time, astronomical and lunar timeclock
- Triggering and show-control integration using Remote Devices and MSC controllers connected over an Ethernet network
- Simple integration with other Mosaic devices for large systems, including MSC X 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
- Shares onboard input status to other controllers on the network
- Software and configuration upload using Ethernet
- Integrated web server provides active monitoring and remote triggering using Ethernet

MECHANICAL

- No visible means of attachment
- Metal faceplate with magnetic overlay
- Learning IR receiver compatible with 3rd-party remote
- Surface mount and flush mount back box options available

ELECTRICAL

- RJ45 socket supporting 10/100Base-TX Ethernet with link and data LED with Static and DHCP addressing support
  - Supports dual IP address for data output
- PoE powered (IEEE 802.3af, Class 2) 4W typical draw

THERMAL

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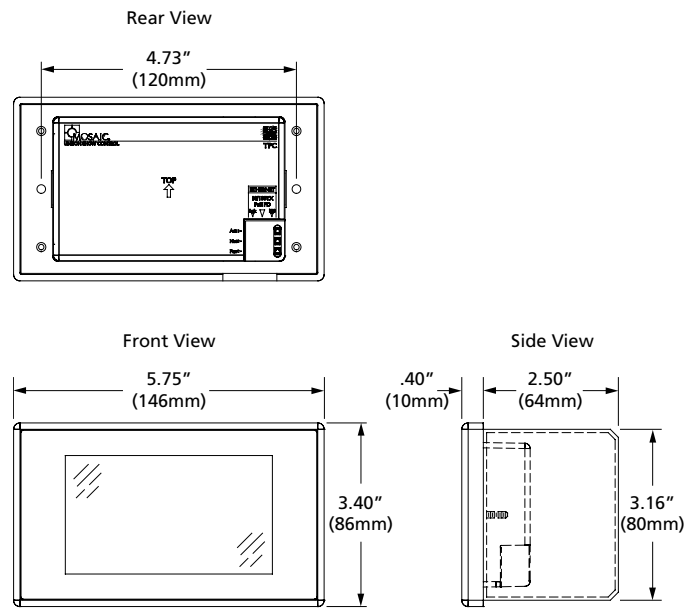- 10–50% relative humidity, non-condensing

PHYSICAL

Tessera Controller Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
MTPC	3.35	85	5.75	146	0.40	10
-FBB	3.00	76	5.35	136	2.50	64
-SBB	3.35	85	5.75	146	2.50	64

Tessera Controller Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
MTPC	0.53	0.24	0.93	0.42

*Weights and dimensions typical

Rear View

4.73"
(120mm)

Front View

5.75"
(146mm)

3.40"
(86mm)

Side View

.40"
(10mm)

2.50"
(64mm)

3.16"
(80mm)

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