ETC Unison Mosaic Tessera I/O Interface

Integration Series

GENERAL INFORMATION

The Unison Mosaic Tessera Remote Input/Output Interface provides an easy-to-implement solution for interfacing the Tessera Controller with a lighting control system. With a line voltage power connection, the I/O Interface provides power and data communication for a Tessera using a standard Ethernet cable. The versatile interface also provides connections for DMX output, DALI interface and eight contact inputs, creating a standalone lighting control system with no additional configuration. The I/O Interface and companion Tessera can be used as part of a larger Mosaic system for installations requiring multiple controllers and remote devices.

FEATURES

- Seamless triggering interface and data output for Tessera systems without the need for an Ethernet network
- Supplies power and data to connected Tessera
- Hardline DMX output of Tessera control
- Supports RDM discovery and addressing
- DALI lighting control output or input
- Bidirectional RS232 serial connection
- Eight digital/analog inputs for triggering of the connected Tessera
- 100–240 VAC power input for worldwide support
- Solid-state, instant-on, fit-and-forget solution
- Programmed as a seamless extension of a Tessera, 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

Mosaic Tessera I/O Interface

MODEL	DESCRIPTION
MTPC-RIO	Tessera Remote Input and Output Interface

Compatible Mosaic Show Controllers

MTPC	Mosaic Tessera Panel Controller

Related Mosaic Show Controllers

MSC_[1]	Mosaic Show Controller
MSCX	High-capacity Show Controller
MALC	Mosaic Atlas
MALCP	Mosaic Atlas Pro

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

Related Mosaic Accessories

M108	1-gang, 8-button station
M-TS	Mosaic Touchscreen
MSC-NET	5-port Ethernet switch with PoE

SPECIFICATIONS

FUNCTIONAL

- Microprocessor-based system specifically designed as a companion to the Mosaic Tessera Controller
- Direct connection to Tessera via Cat5e or Cat6 cable
- Operating system stored in non-volatile solid-state memory
- Five year warranty

MECHANICAL

- Eight-unit-wide DIN enclosure complies with DIN43880 and EN60715 (35/7.5 rail)
- Rugged aluminum enclosure
- Wiring connections use standard rising clamp, plug-able connectors
- Optional installation kits available

ELECTRICAL

- Supply requirements 100–240 VAC / 50–60 Hz / 0.1 A using Weidmuller BVZ 7.62/03/180 7.62 mm connector
  - Typical power consumption of 10W with TPC connected
- The following connections are supported using the included, plug-able 0.2 in (5.08 mm) rising clamp terminals:
  - Isolated DMX512/ RDM
  - RS232 serial
  - Isolated DALI bus connection
  - Eight individually-selectable tri-mode inputs configurable for digital high/ low, analog or contact closure operation
- Isolated tri-mode inputs are rated for:
  - Digital - 24 VDC maximum, internal 2 MOhm pull down
  - Analog - 0–24 VDC range configurable in software
  - Contact Closure - Voltage free with internal 2.2 kOhm pull-up to 5 VDC
- RJ45 connections support 10/100Base-TX Ethernet
  - Link and data LEDs
  - Static and DHCP addressing support
  - Port one: Direct connection to Tessera for power and data only
  - Port two: Optional connection to lighting control network for integration of other controllers and output of Ethernet DMX levels from the connected Tessera controller

THERMAL

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

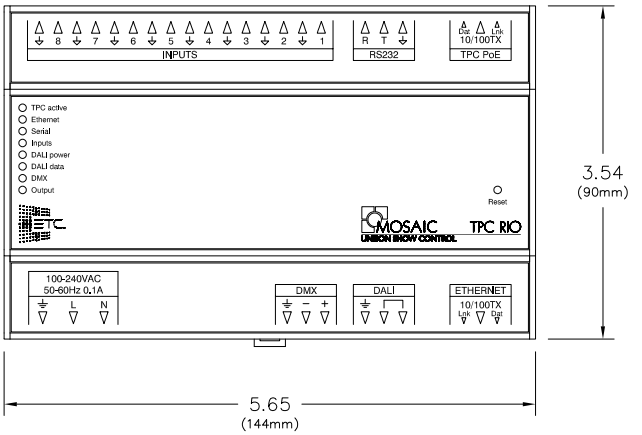
PHYSICAL

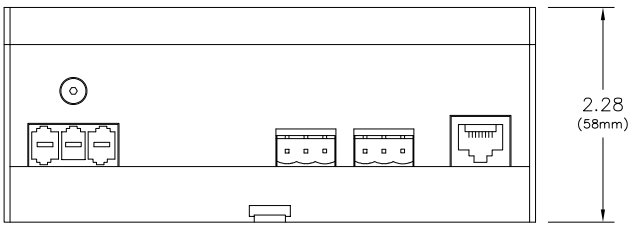
Tessera I/O Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
MTPC-RIO	3.54	90	5.65	144	2.25	58

Tessera I/O Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
MTPC-RIO	1.11	0.51	1.39	0.63





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