

## RT03 Technical Datasheet

Effective May 4, 2017

# Starfield lighting Automation



Made in USA



### OVERVIEW

The RT03 bridges the gap between the high-speed but fragile world of TCP/IP networks and the noisy, rough and tumble world of device-level networks.

She has two full power DALI network buses, mounts on a standard NEMA electrical box, and operates independently or as part of a whole-building network.



RT03 Ethernet and DALI Class 2  
Connections



RT03 Power and DALI  
Class 1 Connections

### HIGHLIGHTS

**Economical** Distributed architecture and a single bus for DALI and control devices reduces installation costs and eliminates the need for providing, programming, and maintaining central control panels.

**Full Power** Two full power DALI network buses with self setting overload and surge protection.

**Class 1 and Class 2** Provides separate connection points for Class 1 and Class 2 DALI buses.

**Dual Voltage Primary** Accommodates 120 or 277 vac power

**Ethernet Port** RJ45 jack with standard indicator lights for connection to local diagnostic equipment or a whole-building backbone network.

**DALI Indicators** Traffic and Fault indicator lights provide quick, intuitive status and troubleshooting of each DALI network bus.

**Wire Termination Plugs** Plug-in connectors allows quick removal for inspection, replacement, and troubleshooting.

**Grounded DALI Buses** UL required for Improved safety.

**Scalable** Modular design scales from single rooms to whole buildings.

**Bridging** Internal bridging eliminates DALI bus size restrictions by allowing single rooms to whole buildings to be linked into single zones.

### SPECIFICATIONS

#### Electrical

**Primary** 120/277vac, 12VA

**DALI Bus Ratings** 16.5vdc, 250mA. 17.2 vdc unloaded.

**DALI Specification** IEC 60929 Annex E

**DALI Bus Overload Protection** 250mA self-setting, 250mA coordinated to turn on Fault indicator

**DALI Surge Protection** 500mA fast blow fuses and surge arrestors on each bus line.

**Terminals** 5mm screw clamp terminal plugs rated for 18 AWG solid or 16-18 AWG stranded copper wire

**Grounding** Grounded secondary and DALI bus

#### Physical

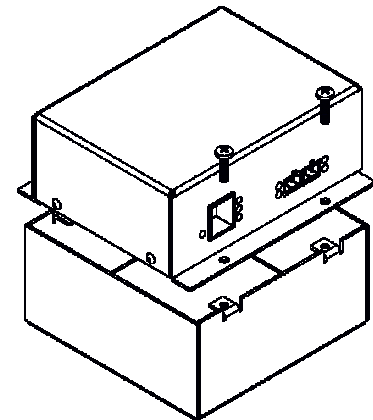
**Outside Dimensions:**  
5.18 x 4.69 x 1.99  
inches

**Shipping Weight:** 2.5  
lbs

**Case:** 18ga cold rolled steel

**Case Finish:** Black zinc plating

**Mounting** NEMA 4-11/16 (11B) deep electrical box.



RT03 Mounts on NEMA standard  
electrical box

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# RT03 DUAL CHANNEL DALI POWER SUPPLY AND ROUTER

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## Networking

**Ethernet 10bASE-T**

**Ethernet Transmission Rate 10Mb/sec**

**Uncleared Session Refresh Time 30sec**

**Bridging** DALI groups may be bridged over any number of DALI network buses using the Ethernet backbone network

**IP Addresses: Static only.** DHCP servers not allowed. Factory default IP address of 10.0.1.9 may be field set using Starfield's CA03 programming cable.

## Environmental

**Location:** NEMA 1, indoor use only

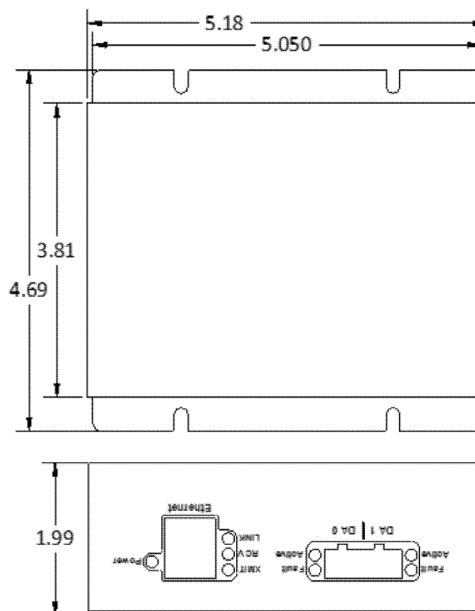
**Operating Temperature Range:** 0 to +55°C

**Storage Temperature Range:** -10 to +85°C

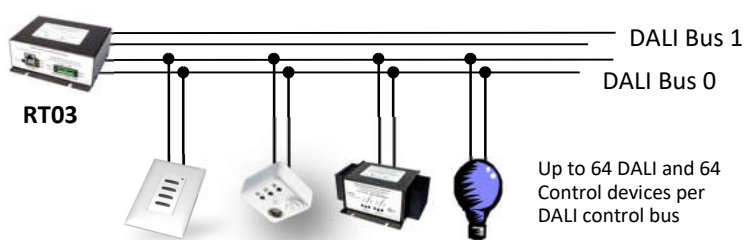
**Humidity:** 90% Non-condensing

## Warranty

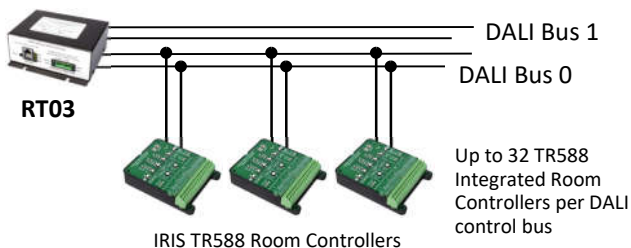
Limited 3 year



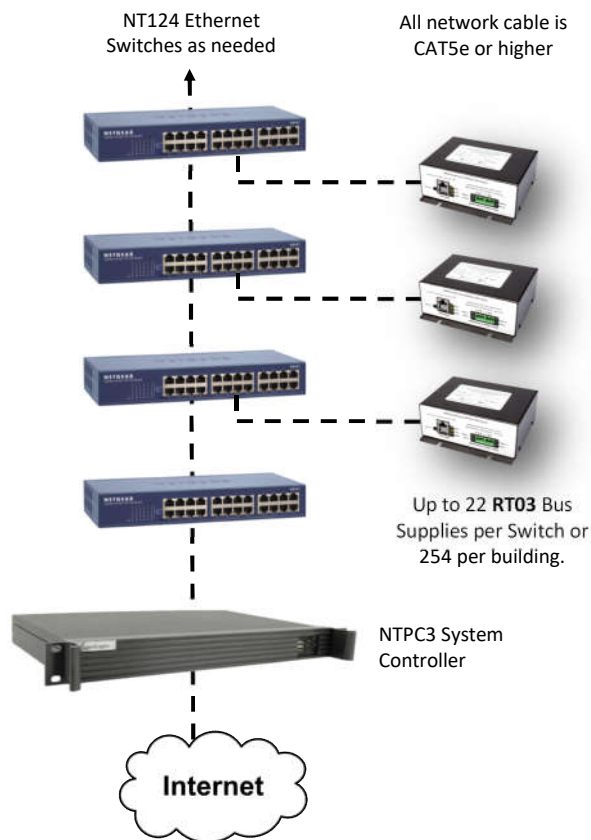
**RT03 Dimensions**



**Single DALI Network**



**Networking for TR588**



**Optional Whole-Building Network**