1. DATA SPLITTER MODULE
   1. SYSTEM OVERVIEW
2. General Description
3. The data splitter module shall be the Vision.Net 4-Way Data Splitter Module by Strand.
4. The module shall be compatible with Strand Vision.Net Architectural Lighting Control protocols and associated Strand Vision.Net lighting control products.
   1. PHYSICAL & MECHANICAL
5. The module shall be constructed using 18-gauge cold rolled steel finished in a fine-textured black powder coating that fully encloses all the electrical components.
6. The module shall be field configured to install on either DIN rail or be surface mountable.

If DIN rail mounted the module shall be installed on type TS35/7.5 mm DIN rail.

If surface mounted the module shall be able to be orientated vertically or horizontally and be affixed to a surface using commonly available rounded head fasteners.

1. The module shall be constructed, approved and listed in accordance with UL2043 ‘Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces’, i.e., *Plenum* rated.
2. Physical measurements for the module including termination connectors shall not exceed 4.02 x 4.5 x 1.48 in. (102.1 x 114.3 x 37.5 mm). The module weight, including termination connectors shall not exceed 1.0 lb. (0.5 kg).
3. The module, if installed on standard TS35/7.5 mm shall consume no more than 6SU of DIN rail length.
4. The module shall be cooled using free-air convection.
5. The following interfaces shall be provided on the module:
6. 4x 9-position plug in PCB headers

1x 5-position plug in PCB header

* 1. ELECTRICAL

1. The module shall use any 9-position plug-in PCB interface for data input/output of the ‘Vision.Net’ lighting protocol.
2. The ‘Vision.Net’ interface shall be terminated using Belden 1583a, CAT5e, 24 AWG, solid type cable.

The module shall have independent green and red LEDs per interface to indicate the receiving and transmitting status of the associated ‘Vision.Net’ interface.

1. The module shall use the 5-position plug-in PCB interface for power input/output.
2. Power input shall be from a separate 24 VDC power source and shall be terminated to the module using 16AWG (1.29² mm) wire on the 5-position, screw-down, plug-in PCB connector.

Power output shall be terminated to the module using 16AWG (1.29² mm) wire on the 5-position, screw-down, plug-in PCB connector.

An independent green LED shall be provided to indicate the state of the module’s operating power.

A third grounding terminal shall be provided for an optional connection of the digital ground to earth.

* 1. FUNCTIONALITY

1. The module shall offer the ability to split Vision.Net control signals and extend Vision.Net control wiring up-to 1000 ft. (305 m) using any of the four ‘Vision.Net’ interfaces.
   1. DOCUMENTATION
2. A Quick Start Guide shall be included with the module at purchase and be available from the manufacturer’s website.
3. A 2D Dimensional Drawing of the module shall be available from the manufacturer’s website in .dxf and .pdf format.
4. A Building Information Modeling (BIM) file of the module shall be available from the manufacturer’s website in .rfa format.
   1. ENVIRONMENTAL SPECIFICATION
5. The acceptable ambient operating temperature of the module shall be 0 to 40° Celsius (32° to 104° Fahrenheit).
6. The acceptable operation location of the module shall be the equivalent of a good office environment, without excessive dust or rapid changes in temperature or humidity.
7. Acceptable relative humidity levels for operation of the module shall be 20-90%, non-condensing.
8. The maximum surface temperature of the module shall not exceed 57° Celsius (134° Fahrenheit).
9. The module shall not dissipate more than 10.23 BTU/hr.
   1. STANDARDS COMPLIANCE
10. The module shall be manufactured in conformity with DIN43880 and IEC 60715.
11. The module shall be in manufactured in conformity, listed, and marked against the following standards:
12. US safety: UL62368-1, UL2043

Canada safety: CSA C22.2 No. 62368-1

EU safety: EN 62368-1

EU RoHs: EN 50581

1. The manufacturer shall make available on their website certificates from an accredited testing laboratory authorizing the manufacturer to mark the module in accordance with the relevant standard.
2. The manufacturer shall upon request provide to the end-user reports attesting to the conformity of the listed and approved standards from an accredited testing laboratory.
   1. INCLUDED ITEMS
3. The module shall include as aforementioned:
4. Quick Start Guide

Surface Mount Bracket

Assorted screw-down, plug-in connectors

## END OF SPECIFICATION.