

# PRODUCT SPECIFICATIONS

## LumiNode 2

## 1. APPLICATIONS

### Ethernet / DMX processing device

The LumiNode 2 is an easy to deploy and maintain ethernet/DMX processing device for converting, routing, and merging DMX/RDM data on a network.

The unit is specifically designed with an all metal, robust enclosure, to mount on a fly bar or a wall, making it an ideal solution for theatre- and studio AV installs or for use at live performances. Equipped with 2x 1Gb Ethercon ports and 2x 5-pin DMX ports LumiNode 2 offers flexibility in a small package. Each port is fully optically and galvanically isolated and can be configured as an in- or output. All relevant industry standard protocols such as Art-Net, sACN, KiNET, RTTRpl (Blacktrax) are supported and can be processed and converted in 4 onboard process engines supporting HTP, LTP, Crossfade, Backup, Switch and Custom merging modes with soft patch functionality. LumiNode 2 also supports remote device management (RDM), has automatic functional and operational redundancy and recovery to reliably cope with the most challenging lighting tasks. A show recording and play-back mode lets you conveniently store lighting scenes and play these back when triggered to do so. An external contact closure is included as standard to allow for example to playback a lighting scene in case of emergency. LumiNode 2 is efficient and has a low power consumption and can be powered via PoE.

LumiNode 2 is easy and intuitively to configure through a built in web-based user interface. The fully documented open API facilitates full integration with any 3rd party control or management system.

With its two 1Gigabit ethernet ports, LumiNode 2 offers the possibility of a split network interface, with individual IP-addresses, making it possible to separate the lighting network data streams from IT related data, allowing for remote status monitoring and management without interfering with critical lighting control data streams.

LumiNode 2 with its 2 Ethercon connectors with 1Gbps capacity and an integrated switch is ready for future ethernet only based lighting networks.

Luminode 2 features group (VLAN) technology, which allows you to arrive at the Node with an ISL connection, connect the node to the lighting group and use the second Ethernet port for other purposes in another group (for example video control, Dante audio, ...).

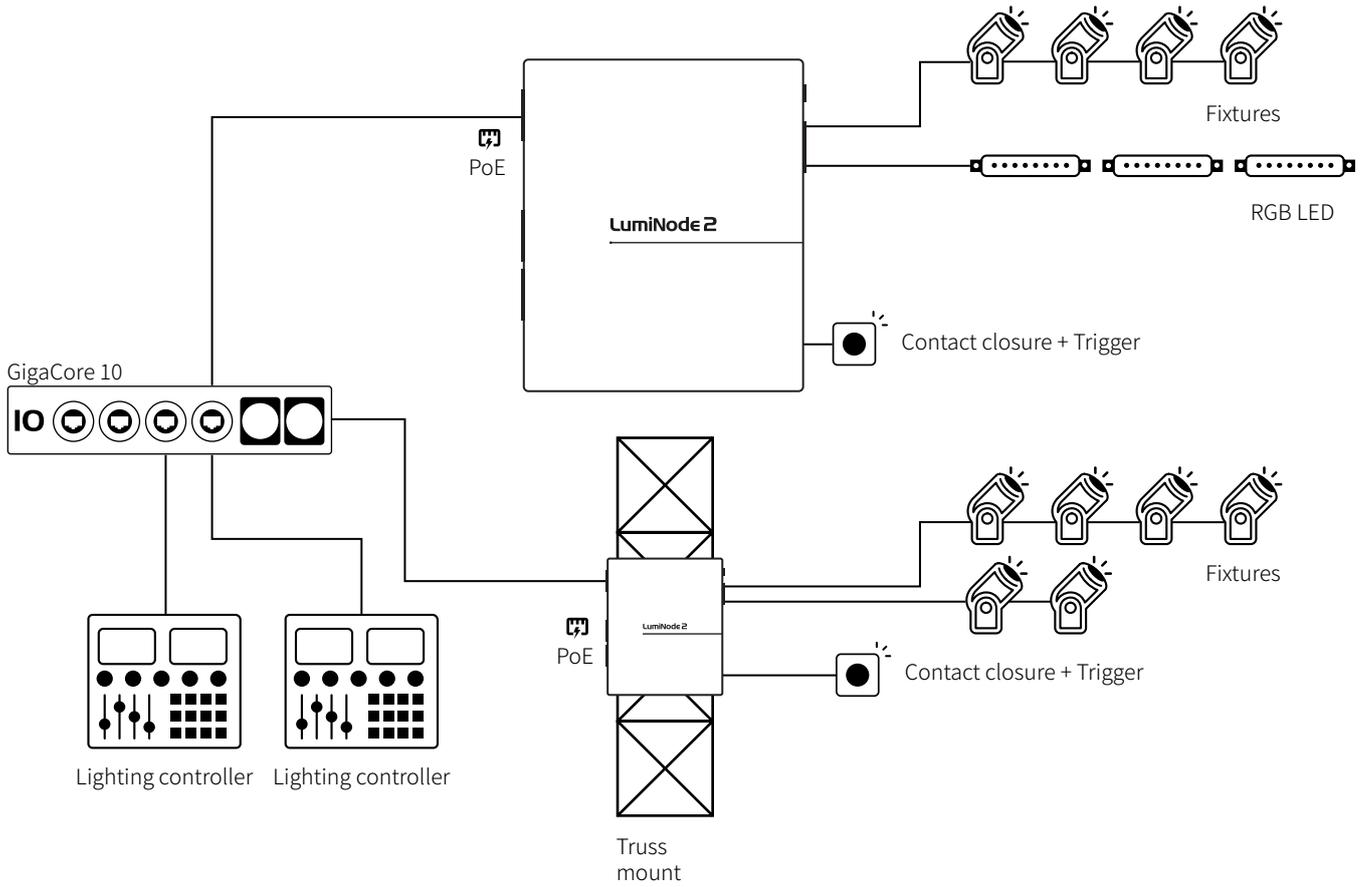
#### Applications:

- Theaters
- Touring & Live entertainment
- Mounting to fly-bars
- Wall mount
- Studio's
- Fashion shows, Product launches, Company events, Trade fairs
- ...

#### ORDERING INFORMATION

|                   |               |
|-------------------|---------------|
| Product name:     | Part numbers: |
| <b>LumiNode 2</b> | LU 01 00070   |

## 2. APPLICATION DIAGRAM

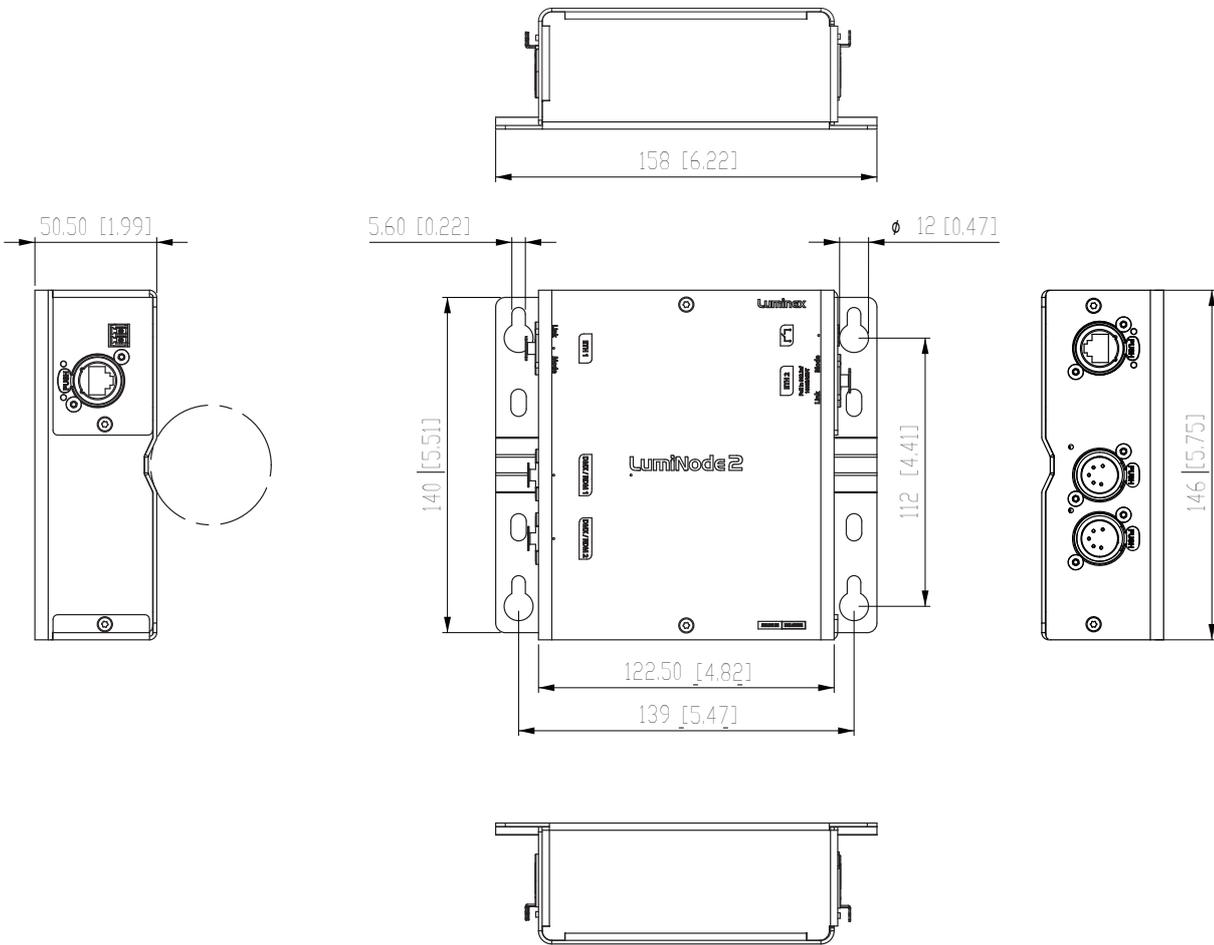


### 3. TECHNICAL SPECIFICATIONS

| CONNECTIVITY               |  |
|----------------------------|--|
| DMX/RDM                    | 2x Neutrik 5 pin XLR (female) shielded & gold plated                         |
| Network                    | 2x Neutrik 5 pin XLR (female) shielded & gold plated                         |
| Contact Closure            | 1x 2-pole pluggable terminal block   |
| Power                      | PoE-802.3af (Class 0)  |
| DMX FEATURES               |  |
| Supported protocols        | DMX512 (1986 & 1990)<br>DMX512-A<br>RDM ANSI E1.20-2010                      |
| DMX port direction         | Input or output (configurable)   |
| DMX port isolation         | Optical and galvanic isolation per port                                      |
| DMX timing                 | Framerate: 10-40fps<br>Break: 176-352µs                                      |
| ETHERNET FEATURES          |  |
| Supported protocols        | Art-Net™ (1-4)<br>sACN ANSI E1.31-2018<br>RTTrPL (BlackTraX)<br>KiNET v1, v2 |
| Port speed                 | 10/100/1000Mbps  |
| Port sensing               | Auto-negotiation<br>MDI / MDIX   |
| Split management interface | Yes  |
| Groups (VLAN) support      | No   |
| ADDITIONAL FEATURES        |  |
| Processing engine          | 4  |
| Merging                    | Yes (HTP, LTP, X-Fade, Backup, Switch, Custom)                               |
| Softpatch                  | Yes  |
| Master/Limit               | Yes  |
| Trigger system             | Yes  |
| Reroute function           | Yes  |
| Profile manager            | Yes  |
| Snapshot                   | Yes  |
| Monitoring Software        | LumiNet Monitor, Araneo  |
| DMX redundancy             | Yes  |
| STATUS REPORTING           |  |
| Display & jog              | No   |
| Ethernet port connection   | link/activity LED<br>Group RGB LED   |
| DMX port                   | DMX/RDM RGB LED  |
| POWER / PoE                |  |
| Power input                | PoE 802.3af (Class 0)  |
| Power consumption          | Max 8,5W   |
| Power redundancy           | No   |

| <b>MANAGEMENT</b>                      |   |
|--|---|
| Configuration                          | Built in Web server<br>Documented Web API |
| <b>ENVIRONMENTAL</b>                   |   |
| Operating temperature                  | 0 to +50°C                                |
| Storage temperature                    | -10 to +70°C                              |
| Humidity(non condensing)               | 5 to 95% RH                               |
| <b>MECHANICAL</b>                      |   |
| Enclosure                              | Metal enclosure                           |
| Dimensions (W x D x H)                 | 158 x 146 x 50,5 mm                       |
| Weight                                 | 0,9 kg                                    |
| Mounting type                          | Truss mount, Wall mount                   |
| Packaging                              | 240 x 230 x 80 mm                         |
| <b>APPROVALS</b>                       |   |
| Electromagnetic emissions and immunity | EN55032 class A                           |
|  | EN55035                                   |
|  | EN61000-3-2                               |
|  | EN61000-3-3                               |
|  | EN61000-4-2                               |
|  | EN61000-4-4                               |
|  | EN61000-4-5                               |
|  | EN61000-4-6                               |
|  | EN61000-4-8                               |
|  | EN61000-4-11                              |
|  | FCC Part 15 CFR 47 class A                |
|  | ICES-003 Issue 6                          |
| Safety approvals                       | IEC 62368-1                               |
|  | EN 62368-1                                |
|  | UL 62368-1                                |
|  | CAN/CSA-C22.2 No. 62368-1                 |
|  | CE  |
| Certificates                           | cSGSus Mark                               |
|  | CE  |
|  | CB certificate                            |
| <b>GREEN</b>                           |   |
|  | RoHS                                      |
|  | REACH                                     |

**LUMINODE 2**



**LUMINODE 2**

