Luminex
NETWORK INTELLIGENCE

PRODUCT SPECIFICATIONS

LumiNode I

Description: Technical specifications LumiNode 1 | REVISION: 20210907-REV 1.0.3

MADE IN BELGIUM

Luminex reserves the right to modify the technical specifications at any given time without prior notice.
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1. APPLICATIONS

The LumiNode 1

A must have tool and a perfect companion unit for every lighting professional.

With its unique USB to Ethernet feature, LumiNode 1 functions as an Ethernet dongle enabling you to have a fully functional ethernet port when connected to your laptop/PC. LumiNode 1 works with any network-based lighting control software without the need to install additional drivers. LumiNode 1 can also be used as a one-port PoE powered, stand-alone node to serve either one bi-directional, fully isolated DMX port or 2 network process engines to route protocols around, test, parameterize and take over light kits even with RDM, without consoles or other complex systems. All relevant industry standard protocols such as Art-Net, sACN, KiNET, RTTRpl (Blacktrax) are supported and can be processed and converted in 2 onboard process engines supporting HTP, LTP, Crossfade, Backup, Switch and Custom merging modes with soft patch functionality.

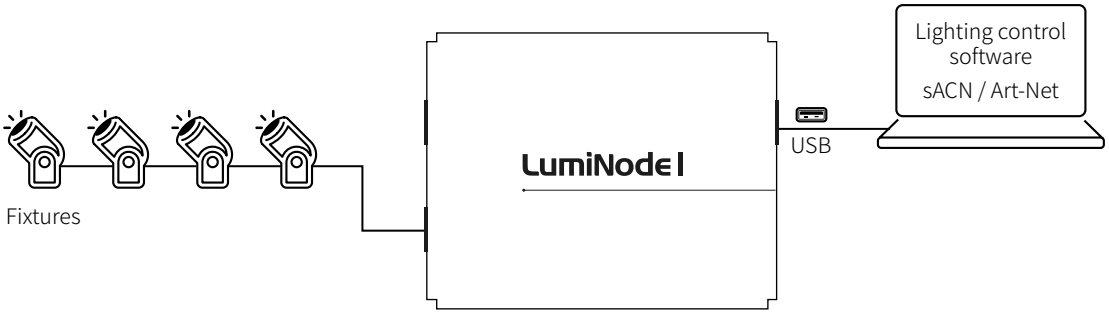
With its rugged construction, 1Gbit EtherCon port, PoE power and small “pocket sized” form factor, it is designed to accompany technicians in every situation thinkable.

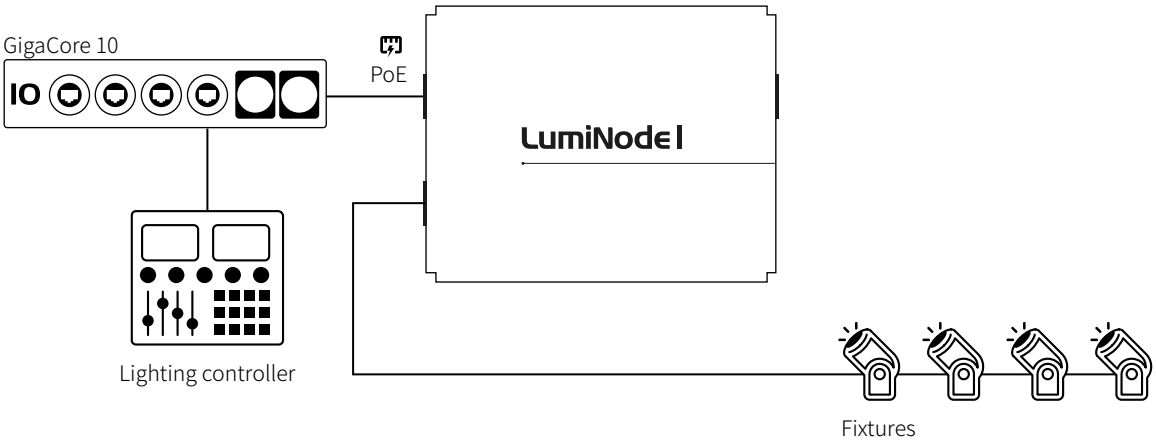
Applications:

- Touring and live events
- Theaters
- Fixture preparation, testing
- Driverless USB to Ethernet adapter
- Lighting network protocol converter (Artnet, sACN, RTTrpL, Kinet)
- ...

ORDERING INFORMATION	
Product name:	Part numbers:
LumiNode 1	LU 01 00069

2. APPLICATION DIAGRAM



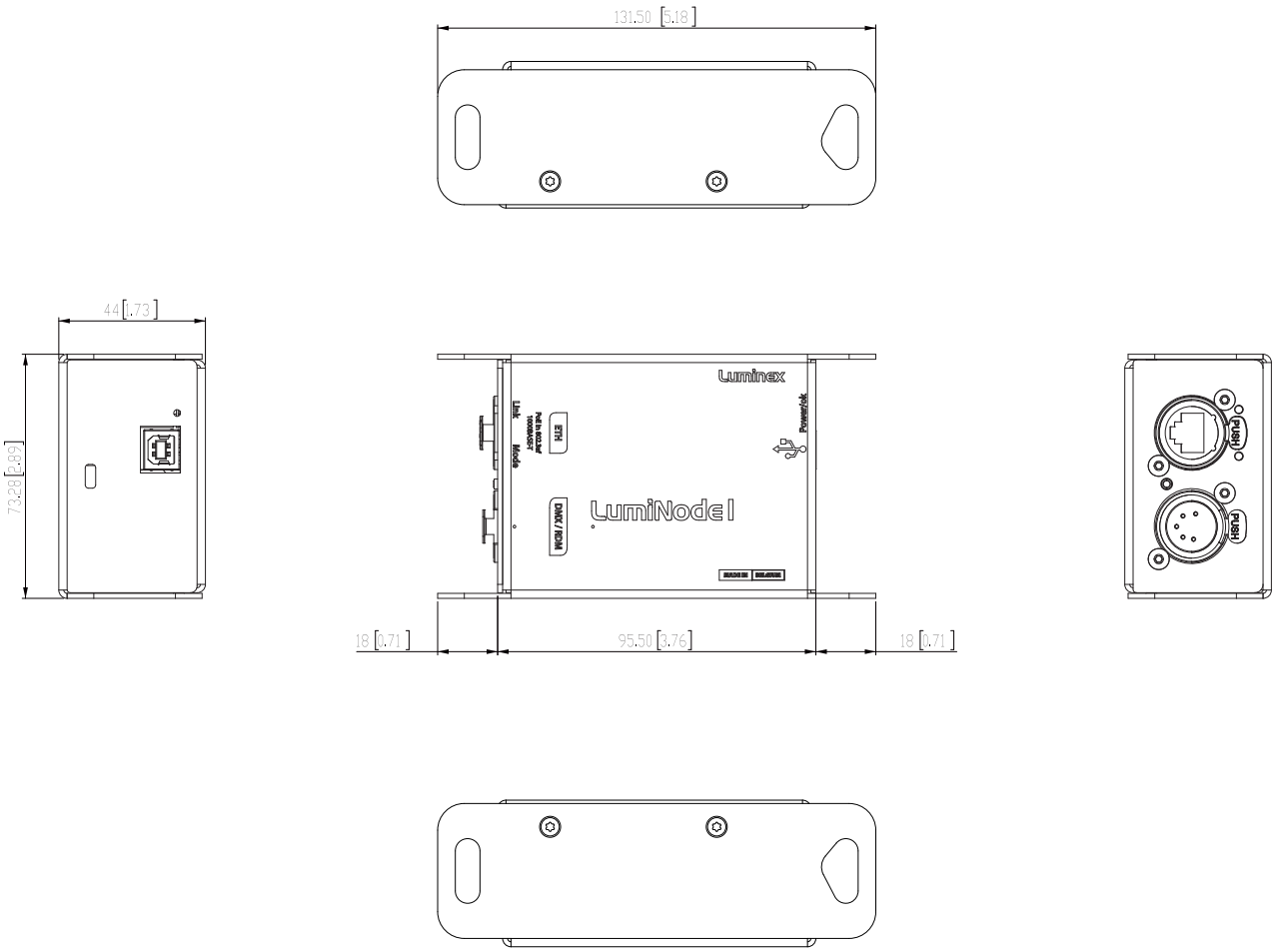


3. TECHNICAL SPECIFICATIONS

CONNECTIVITY	
DMX/RDM	1 x Neutrik 5 pin XLR (socket) shielded & gold plated
Network	1x Neutrik ethercon shielded 1x USB to ethernet (dongle function)
Contact Closure	N/A
Power	PoE-802.3af (Class 0)
DMX FEATURES	
Supported protocols	DMX512 (1986 & 1990) DMX512-A 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 Break: 176-352µs
ETHERNET FEATURES	
Supported protocols	Art-Net™ (1-4) sACN ANSI E1.31-2018 RTTrPL (BlackTraX) KiNET v1, v2
Port speed	10/100/1000Mbps
Port sensing	Auto-negotiation MDI / MDIX
Split management interface	Yes
Groups (VLAN) support	Yes
ADDITIONAL FEATURES	
Processing engine	2
Merging	Yes (HTP,LTP,Xfade,Backup,Switch,Custom)
Softpatch	Yes
Master/Limit	Yes
Trigger system	Yes
Reroute function	Yes
Profile manager	Yes
Snapshot	Yes
Monitoring Software	LumiNet Monitor
DMX redundancy	Yes
STATUS REPORTING	
Display & jog	No
Ethernet port connection	link/activity LED Group RGB LED
DMX port	DMX/RDM RGB LED
POWER / PoE	
Power input	PoE-802.3af (Class 0)
Power consumption	Max 6W
Power redundancy	Yes

MANAGEMENT	
Configuration	Built in Web server Documented Web API
ENVIRONMENTAL	
Operating temperature	0 to +50°C
Storage temperature	-10 to +70°C
Humidity(non condensing)	5 to 95% RH
MECHANICAL	
Enclosure	Metal enclosure
Dimensions (W x D x H)	131,5 x 73,3 x 44 mm
Weight	0,42 kg
Packaging	200 x 140 x 60mm
APPROVALS	
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
GREEN	
	RoHS REACH

LUMINODE 1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Luminex
LumiNode I
ETH
DMX / RDM
Power/ok
PUSH
PUSH
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LUMINODE 1

Lumitech
LumiNode1
ETHERNET
Link
Mode
DMX/RDM
PUSH
PUSH

LumiNode1
Lumitech
Power/ok