nexus Ethernet / DMX Converters

The NEXUS range is the latest addition to LSC's Data Distribution products and offers conversion between DMX512 signals and Ethernet and currently supports both the Artnet and Streaming ACN (SACN) protocols.

Much more than your standard converter, the NEXUS range of both 1 and 5 port interfaces allows the user many other options such as a protocol conversion tool for today's demanding shows.

Using the free NexLan software, any NEXUS DMX port can be configured to operate in a number of modes such as:

- Standard DMX512 output from a selected Artnet or SACN Universe
- HTP merge of two selected Artnet or SACN Universes.
- LTP merge of two selected Artnet or SACN Universes.
- Select two universes and merge individual slots using HTP or LTP. Softpatching is also possible.
- Assigned to a Primary and a Secondary Universe. Autoswitches from Primary to Secondary on loss of the Primary Universe.
- Resend - any merged port can be resent as a new Artnet/SACN Universe.
- DMX input - send a standard DMX port to an Artnet/SACN Universe.
- DMX Backup - a normal input that is only sent if the selected Universe is not present.

This flexibility of configuration permits some very useful functionality such as:

- A simple ArtNet/SACN to DMX512 converter.
- a Back-up switch for multiple Lighting Controllers.
- a DMX512 to ArtNet/SACN converter.
- a DMX512 Splitter.
- a DMX512 Backup.
- an ArtNet Backup.

NexLan Software

The NexLan software is used to configure and monitor the NEXUS range of products.

The software is only necessary when you first configure the NEXUS range however you may also continue with its use to monitor the system and to control and test any lighting fixtures without the use of a lighting console. Both Windows and Mac versions are available and are supplied free of charge.

Single port version

- One Ethernet port using a Neutrik Ethercon connector.
- One data input / output suitable for DMX512A compatible protocols.
- Supports Artnet and Streaming ACN protocols.
- Small versatile hand-sized package.
- Powered via PoE (Power over Ethernet).
- Keyhole slot for mounting.

Rack-mount version

- Sturdy 19" 1RU rack-mount folded metal case.

NexLan Software

- Versions available for
  a) Mac OS X 10.4 and up
  b) Windows XP, Vista and 7
  c) PocketPC and Windows Mobile 5 and up Configure any NEXUS product found on a network
- Monitor NEXUS products on a network.
- Software is free.

Five port versions (common features)

- Two Ethernet Ports via Neutrik Ethercon connectors.
- Second Ethernet port can be used as a hub or as a redundant feed.
- Five data inputs / outputs suitable for DMX512A compatible protocols.
- Supports Artnet and Streaming ACN protocols.
- Output XLR connector options of 5 pin or 3pin.
- Internal 85-265v AC 45-65Hz universal power supply with CE, Ctick and UL approval.
- Fully opto/earth-isolated input & individually opto/earth isolated outputs.
- LED indicators for DMX, Power, DMX Termination and DMX/RDM data activity.
- Output circuits are EMI filtered and current limited to protect against short circuits.
- Full 2 year factory warranty.

Truss version

- Optional Hook Clamp adapter.
- Safety Wire attachment point.
- Lightweight, high strength moulded plastic case

Specifications

	NXS1	NXST	NXSR
Number of outputs	1	5	5
Output connectors	5 Pin XLR standard	5 Pin XLR standard - 3-pin XLR options available	
Ethernet Ports	1	2	2
Second Ethernet Port (hub or backup).	✖	✔	✔
Artnet or Streaming ACN data protocols	✔	✔	✔
DMX512 data LED	✔	✔	✔
All outputs isolated	✔	✔	✔
Galvanic Isolation barrier	1500 Volts		
Short circuit protected	✔	✔	✔
DMX512A compatible	✔	✔	✔
Input power supply	PoE (Power over Ethernet)	85-264 VAC 47-63Hz	
Power supply on LED	✔	✔	✔
Conformity	CE, Ctick		
PowerCon Input Power Connector option	✖	✔	✔
Chassis style	Stand Alone	Truss or stand alone	1RU 19" Rack
Construction Style	Folded metal chassis.	High strength ABS plastic material	1RU Folded metal chassis.
Physical Dimensions	mm	75 x 45 x 85	320 x 123 x 53	480 x 114 x 44
Actual Weight	gm	300gm	650gm	1.5kg
Shipping Dimensions	mm	170 x 85 x 100	515 x 190 x 65mm	
Shipping Weight Australia	kg	1 kg	1.6kg	

NEXUS PRODUCT CODES	
NXS1	NEXUS single port, PoE powered, Ethernet / DMX512 converter.
NXST	NEXUS 5-way Ethernet / DMX512 converter, Truss Mount with 5-pin I/O AXR connectors with Velcro straps, inbuilt power supply, IEC power connector and cord.
NXST/P	NEXUS 5-way Ethernet / DMX512 converter, Truss Mount with 5-pin I/O AXR connectors with Velcro straps, inbuilt power supply, Neutrik Powercon connector. Mating Powercon connector supplied.
NXSR	NEXUS 5-way Ethernet / DMX512 converter, 19" Rack Mount with 5-pin I/O AXR connectors with inbuilt power supply, IEC power connector and cord.
NXSR/P	NEXUS 5-way Ethernet / DMX512 converter, 19" Rack Mount with 5-pin I/O AXR connectors with inbuilt power supply, Neutrik Powercon connector. Mating Powercon connector supplied.

Here is a collection of the available NEXUS Ethernet / DMX Converters.
Simply click on any image for an enlarged view.

NXS1 One-port stand-alone portable Ethernet / DMX512 Converter.

NXST NEXUS 5-port 1RU Ethernet / DMX512 Converter.

NXST NEXUS 5-port truss-mount / portable Ethernet / DMX512 Converter.