NODE PoE

Art-Net to DMX converter

When a long-distance DMX access using an Art-Net source (Ethernet based) and Art-Net communication is required, the NODE PoE is the ideal, easy and quick solution to implement on your projects and installations.

It decodes Art-Net 4 and sACN to DMX instantly with just one device and provides 2 DMX-RDM universes. Power over Ethernet (PoE A & B), 9-48 V DC input and its USB-C cover the best power and network flexibility.

The NODE PoE is configured with a web browser or the DEVICETOOL. It is upgradable on site to a CLUB PoE or a PRONET PoE.

Node PoE

KEY FEATURES

Ethernet PoE / LAN / WLAN	Easy and fast 10/100 Mbs communication anywhere on LAN with DHCP or static IP. Supports PoE A & B
Art-Net 4, sACN to DMX	Art-Net 4 / sACN-to-DMX decoding, conversion and node functionality in a single device
Easy configuration	Connect the NODE PoE to the computer USB or Ethernet port for setup by browser or Devicetool
Compatible RDM-DMX	2 DMX Out supporting 512 RDM channels each
Triple-Power	By USB-C, DC input or PoE (mode A + B), flexible power options for installations
Upgradable on site	To CLUB PoE or PRONET PoE via DeviceTool, unlocks Stand-Alone and the FULL options
Compatible equipment	• All DMX512 fixtures: LED PARs, bars, strobes, moving heads, dimmers • Any Art-Net 4 or sACN source: software, lighting desk, media server

SAFETY INSTRUCTIONS

Intended use	This device is intended solely for converting Art-Net and sACN network data into DMX signals for compatible lighting fixtures. Any other use may result in personal injury or property damage. Chromateq accepts no liability for damage resulting from improper use.
Do not use in	Direct sunlight | Extreme temperature or humidity conditions | Dusty or wet environments | Areas near strong magnetic fields | Any situation where the unit is or may become damaged
General handling	Never use force when installing connectors. Do not immerse in water. Clean only with a dry cloth, do not use solvents, benzene, thinners or flammable cleaning agents.
Electrical safety	Verify supply voltage before connection (5 V USB-C, 9-48 V DC or PoE). Ensure proper strain relief on all wiring. Do not exceed maximum current ratings listed in specifications.
Children	Keep packaging materials out of reach of children, choking hazard. Small components may detach; ensure children cannot access them.
Disclaimer	Read all documentation before use. Retain this guide for future reference. If transferring the product to a third party, include this document.

Technical information

Interface, Output, Input

DMX output	2 x 512 DMX-RDM (2 U)
RDM	Yes, dual DMX data directions
Connector	XLR 2 x 3 pins (5 pins available)
Ethernet	100BASE-TX, IEEE 802.3af/at, PoE A & B, LAN
USB-C	Yes (5 V DC, 0.3 A)
Button	1, Art-Net / sACN mode selection
Supported data	Art-Net, sACN, 2 universes, RDM

Software & Configuration

Web browser	Device setting by IP or .local name
DeviceTool	Setting, firmware, upgrade, licence
Art-Net / sACN sources	PRO DMX 2, PIXXEM, lighting desk, media server
Wi-Light APP	Via CLUB PoE upgrade

NODE Mode (Art-Net / sACN)

DMX out	2 x 512 per interface
Protocols	Art-Net 4, sACN
Network	UDP, Broadcast, Unicast, Multicast
IP addressing	DHCP by default, or Static IP
Merge modes	HTP, LTP, LowTP
Timeout modes	Freeze DMX, Blackout DMX, No DMX
Universe choice	Per output, from 1 to 32767
Node identity	Short Name, Long Name, SubNet, Universe
Max devices	512 Broadcast | 3,072 Unicast

Specifications

Power input	5 V USB-C (0.3 A) | 9-48 V DC | PoE
Power consumption	1.3 W (PoE A & B)
Ethernet	100BASE-TX, IEEE 802.3af/at. Class 0-3
Dimensions	90 x 80 x 45 mm (3.54 x 3.15 x 1.77 in)
Net weight	0.19 kg (0.42 lbs)
Housing	Aluminium | IP40
Operating temperature	-40 °C to +85 °C
Mounting	Mounting strap included, DIN rail holder optional

Protocols & Communication

DMX 512 / RDM	USITT E1.11-2008. All DMX512 / RDM device
Art-Net 4 / sACN	In / Out, 2 universes per device
RDM Art-Net / sACN	Via software and Upgrades
SPI	Via CLUB SPI or DMX SPI
DALI	Via CLUB DALI
DMX split & boost	Via SPLIT RDM
Stand-Alone	Via CLUB PoE upgrade
FULL options	Via PRONET PoE upgrade

Upgrade

Upgradable on site	Yes, on site via DeviceTool
CLUB PoE upgrade	Stand-Alone mode, 1 zone, 512 scenes, 64 Mb (8 MB) memory, UDP triggers, Wi-Light APP remote and commands
PRONET PoE upgrade	Adds the FULL software options
UxU upgrade	Adds Art-Net / sACN universes

Tools and Accessories

Mounting strap	x1 Included, Velcro, 40 cm
DIN rail holder	Optional, 3M double-sided adhesive
XLR connector	3 pins standard, 5 pins on request
Power supply	Not included
DMX cable	Not included

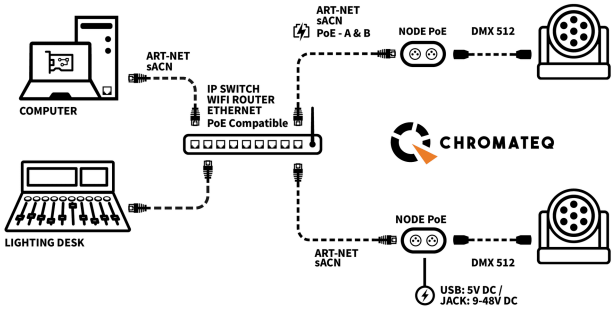
Warranty & Certifications

International warranty	2 years
Certifications	CE, FCC, RoHS
HS customs code	8537.10.91
HTS/TARIC/UKGT/CN	8537.10.91

Operating

* NODE (Art-Net / sACN to DMX)

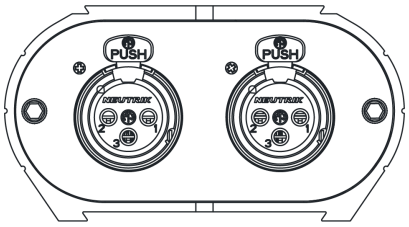
1. Connect the interface to the network via RJ45, PoE A & B or DC power
2. Set the IP mode with a web browser or the DEVICETOOL:
   DHCP by default, or Static IP (192.168.0.5 / 255.255.255.0)
3. Art-Net: set the Short Name and the Long Name, then choose the DMX ports by setting the SubNet and the DMX Universe, and apply
4. sACN: choose the DMX universes of each output, and apply
5. A long press on the button (1 s or more) switches Art-Net / sACN
6. Always restart the device after an IP or mode change:
   unplug it from the power supply



NODE mode, Art-Net / sACN network

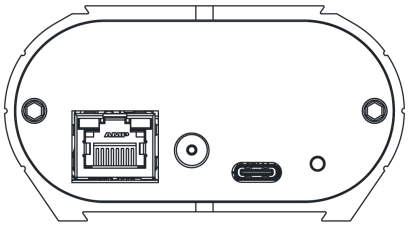
Connections

FRONT PANEL (DMX 1 & DMX 2)



XLR 1 & XLR 2, 3 pins	1. Ground 2. Data - 3. Data +
DMX ports	DMX 1 RDM and DMX 2 RDM, output
Connector option	5 pins XLR available on request

REAR PANEL (ETHERNET, DC & USB)



RJ45 Ethernet	100BASE-TX, PoE A & B
DC input	9-48 V DC jack
USB-C	Data + 5 V DC input (0.3 A)
Button	Short press: no effect Long press 1 s or more: Art-Net / sACN node

CONFIGURATION & NETWORK ACCESS

Configuration tools	Web browser or DEVICETOOL
Default IP mode	DHCP, the IP address is assigned automatically by the DHCP server
Static IP mode	The IP address is fixed by the user and does not change
Default IP address	192.168.0.5
Default subnet mask	255.255.255.0
Computer setting	Same IP address range (192.168.0.x) and same subnet mask (255.255.255.0) on the device and the computer
Web access by IP	http://192.168.0.5
Web access by serial number	http://02a000101.local, 02A is the firmware reference
Web access by generic name	http://mydmxdevice.local
After configuration	Always restart the device after an IP or mode change: unplug it from the power supply

STATUS LED STATES (G = Green | Y = Yellow)

Green OFF + Y OFF	Interface not connected or powered
Green flash x3	Bootloader preparation
Green / Yellow alternating ON	Bootloader mode
Green fast flash + Yellow OFF	USB communication
Green ON + Yellow flash	Ethernet communication
Green ON + Yellow flash	Web browser configuration
G ON + Yellow flash x2	Art-Net mode. Convert Art-Net to DMX
G solid + Yellow flash x3	sACN mode. Convert sACN to DMX
Green + Yellow fast flash	Blacklist

TECHNICAL SUPPORT & RESOURCES

Download Software: chromateq.com/dmx-software-downloads/

Technical Support and commercial: chromateq.com/contact/

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