

# AUDIO NETWORK SOLUTIONS



NA2-10-DPRO  
NA2-10-DLINE  
NPS-30W





# AUDIO NETWORK SOLUTIONS

## CONNECT YOUR LEGACY AUDIO EQUIPMENT TO THE DANTE® WORLD

- Connect analog audio equipment to a Dante® network
- Heavy duty adapters for rugged stage conditions
- Lockable audio and network connections
- Connect analog or digital signals to a Dante® network
- Feed non Dante® ready amplifiers, speakers or mixing desks with signals from the Dante® network
- Different mounting options (rack, floorbox, table mounting, truss)
- Requires a PoE switch or a PoE injector
- AES67 compliant

### NA2-IO-DPRO

The NA2-IO-DPRO is a 2IN, 2OUT breakout box for mic, line, AES/EBU signals. It features high-quality microphone preamps and 2 Dante® ports for either redundant setup or daisy chaining. There are several remote control options available.



### NA2-IO-DLINE

The NA2-IO-DLINE is an end-of-network device. It is a breakout box which allows 2 Line-IN, 2 Line-OUT signals to be integrated into a Dante® network.



### NPS-30W

The NPS-30W is a Gigabit Power over Ethernet Supply with 30 W PoE budget. It is a passive power supply that delivers power at all times with no requirement for power negotiation.

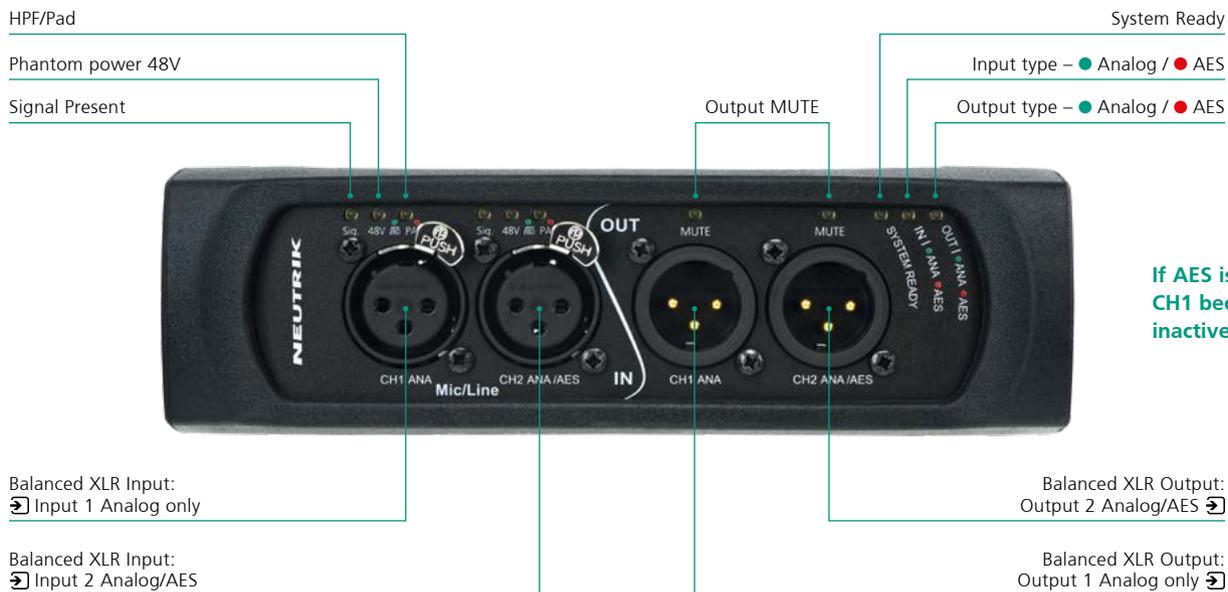


All devices are equipped with lockable connectors and, together with the removable rubber protection, offer a reliable solution for tough stage conditions. With optional mounting brackets or a rack panel, the devices can be mounted below tables, in floor boxes, racks or on a truss.

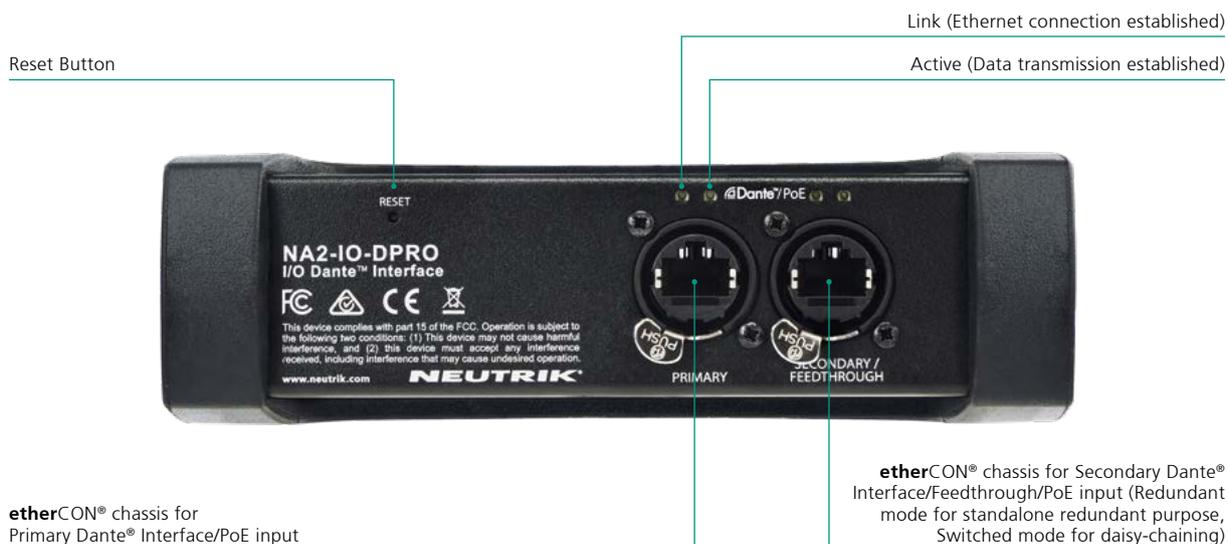
# NA2-IO-DPRO

## MIC, LINE, AES/EBU TO DANTE® INTERFACE

### OVERVIEW FRONT



### OVERVIEW REAR

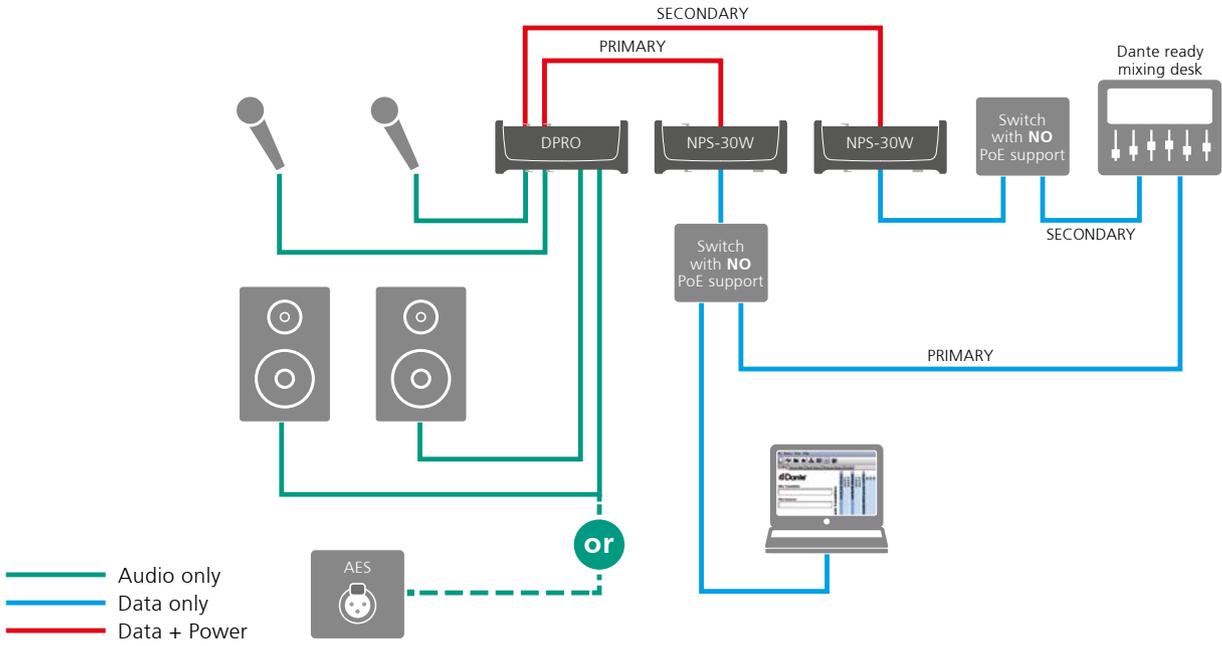


#### IMPORTANT

- Requires a Power over Ethernet switch or a PoE injector (802.3 af/at – class 2 or no classification at 6W)
- Please refer to the manual for redundant power setups

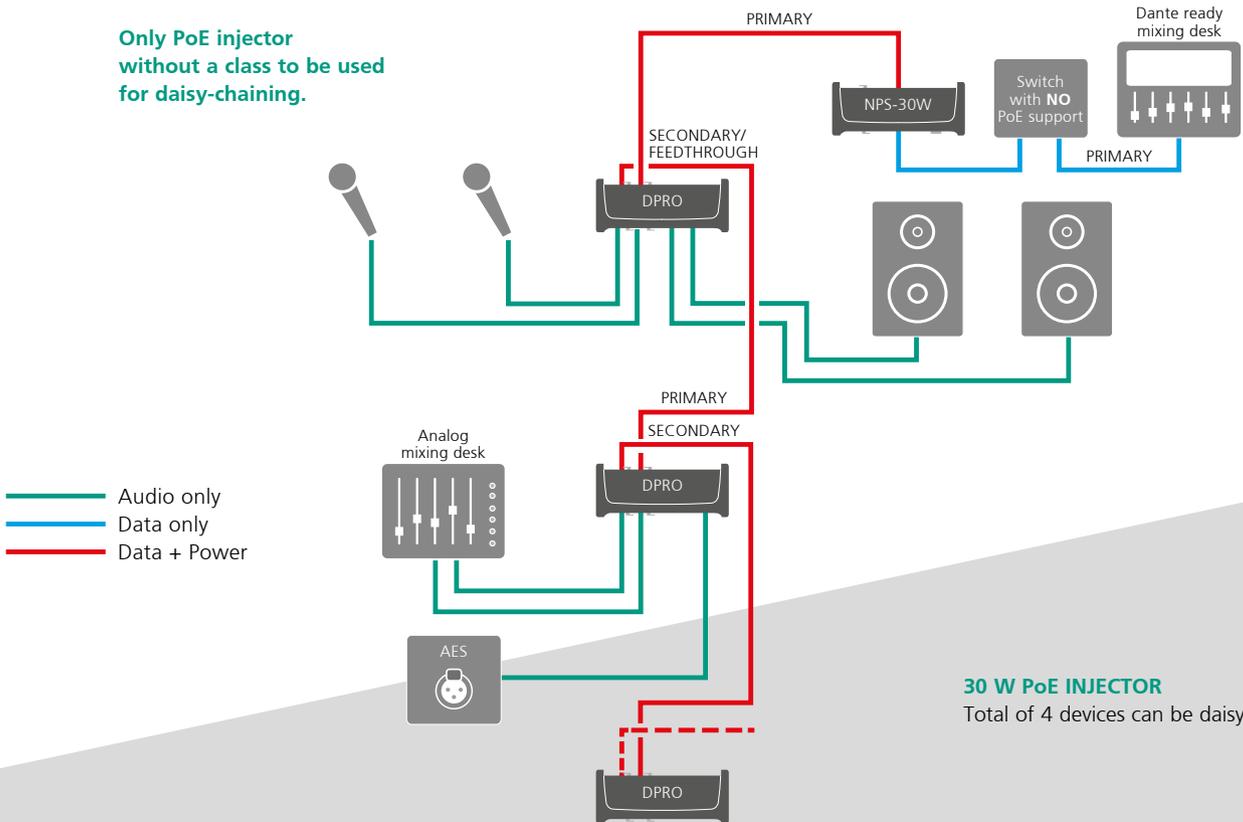


## REDUNDANT MODE



## SWITCHED MODE

Only PoE injector without a class to be used for daisy-chaining.



**30 W PoE INJECTOR**  
Total of 4 devices can be daisy-chained

# NA2-IO-DLINE

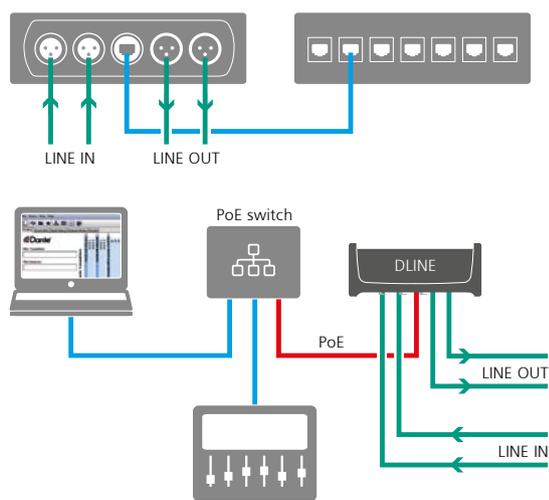
## LINE I/O TO DANTE® INTERFACE



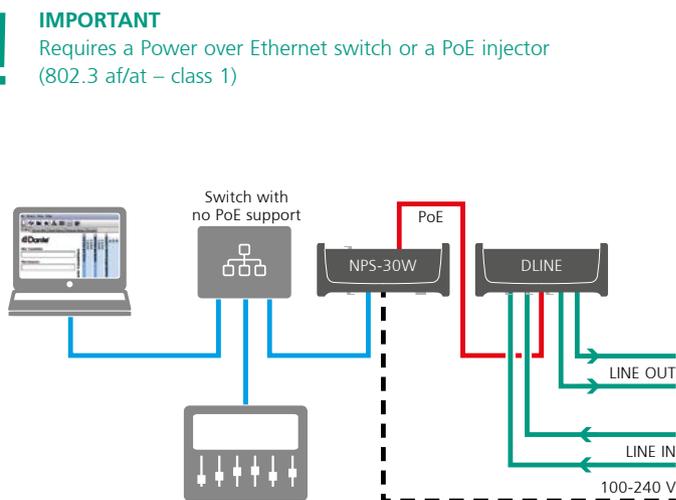
### OVERVIEW FRONT



### POWER SETUP



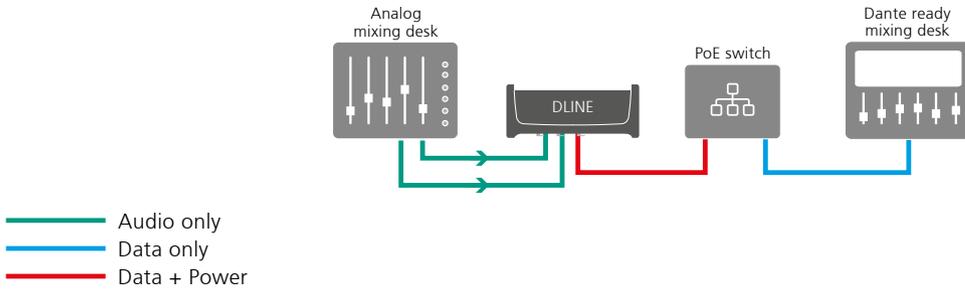
or



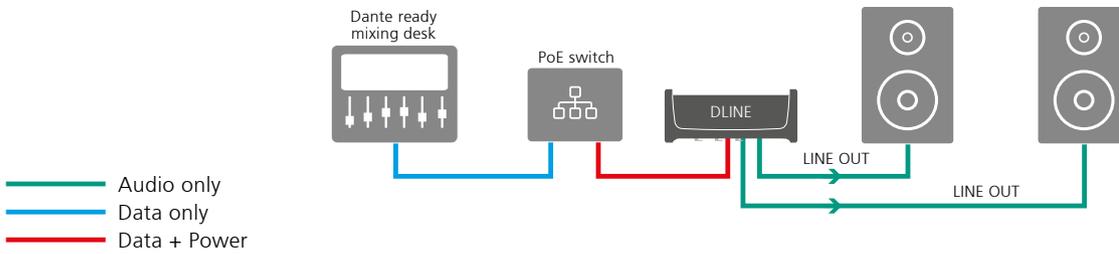
- Audio only
- Data only
- Data + Power
- - - - Power only



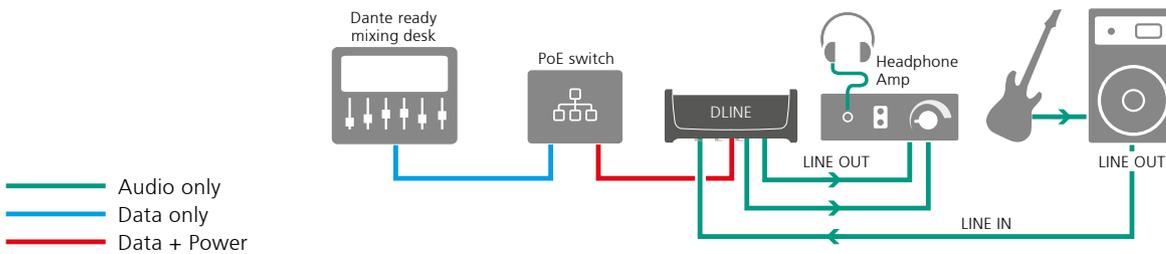
## INPUT APPLICATION



## OUTPUT APPLICATION



## INPUT & OUTPUT APPLICATION (MIXED MODE)



# NPS-30W POWER OVER ETHERNET SUPPLY

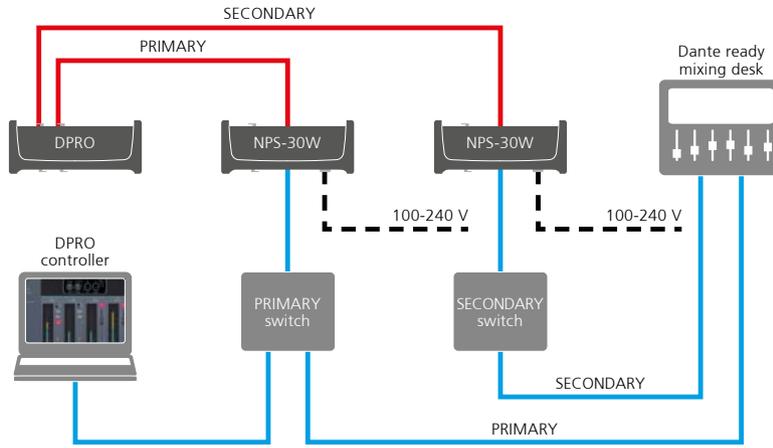
## OVERVIEW FRONT



## OVERVIEW REAR



## POWER AND DATA REDUNDANCY (WITH NEUTRIK NETWORK DEVICES)

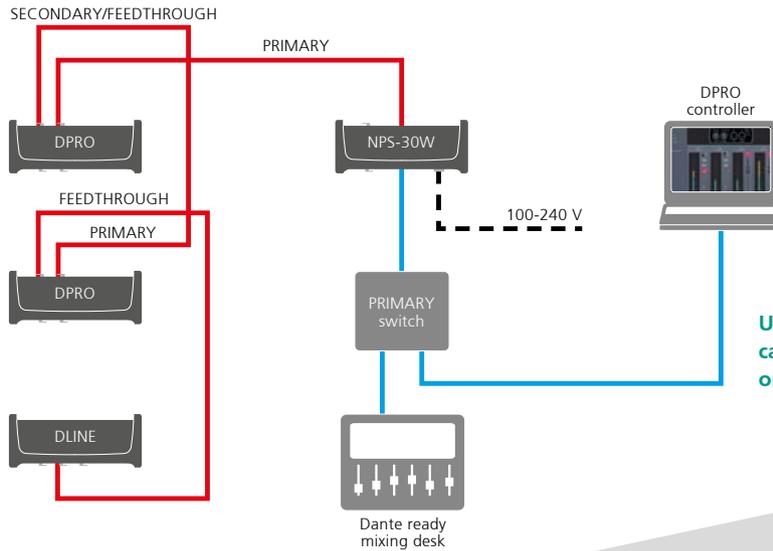


- Data only
- Data + Power
- - - Power only

### IMPORTANT

- For Power + Data redundancy, 2 x NPS-30W are required.
- Do not combine NPS-30W with other PoE injectors, as this can lead to damage to the powered device, due to different pin assignment.

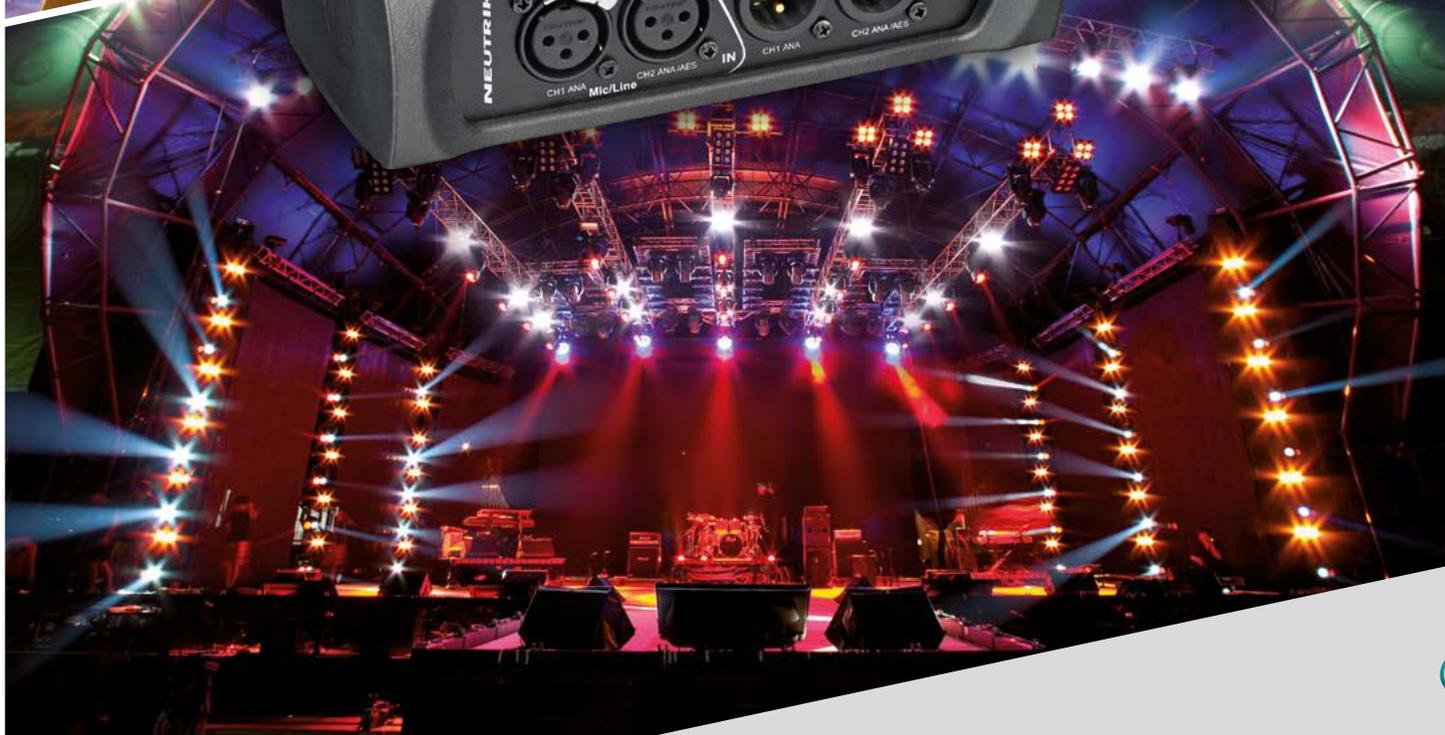
## DAISY CHAINING (WITH NEUTRIK NETWORK DEVICES)



Up to 4 NA2-IO-DPRO can be daisy chained with one NPS-30W PoE supply

- Data only
- Data + Power
- - - Power only

# DIVERSE APPLICATIONS





# REMOTE CONTROL

There are several ways to remotely control the NA2-IO-DPRO. Depending on the application, users can choose from Neutrik's DPRO controller software, Yamaha CL/QL mixing console control, or the control plugin for the Q-SYS platform.

## DPRO CONTROLLER SOFTWARE

The DPRO controller gives the user not only remote control options such as level, mute, gain, phantom power, input signal and lo-cut, but also the possibility to change the device's network settings and to update the firmware.



DPRO Controller App is available for Windows and macOS, free of charge.



## APP REQUIREMENTS

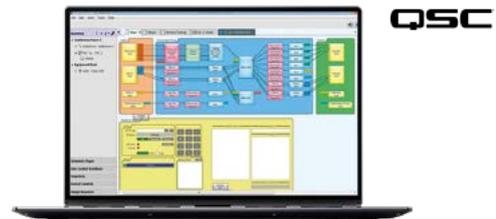
- RAM min 2 GB
- Display resolution > 1280 x 1024 pixel
- Windows 7 or later
- macOS 10.12 or higher

## CONTROL PLUGIN FOR Q-SYS PLATFORM

The NA2-IO-DPRO offers the option to operate in AES67 mode. The addition of AES67 networking enables the integration of the DPRO within the Q-SYS platform.

There is a QSC approved control plugin available by Neutrik to remote control the Dante network device within the Q-SYS environment. Designers can now fully integrate the DPRO into the Q-SYS designer and perform various controls such as gain, phantom power, lo-cut, mute and mic/line switch.

This is a convenient solution to system designers for the widely adopted QSC environment!



## MIC PREAMP CONTROL VIA YAMAHA CL/QL SERIES CONSOLES

With the upcoming firmware version 5.6 for Yamaha CL & QL consoles, the NA2-IO-DPRO can be controlled from the console directly.

The remote option includes phantom power, gain, and lo-cut filter. For example, using the DPRO on a truss is a convenient way to establish ambient miking with short cable runs. Remote control via Yamaha CL/QL consoles provides a real advantage within a Pro AV work environment.



# NA2-IO-DPRO

## TECHNICAL DATA



### GENERAL SPECIFICATIONS

Channel	2 INPUT (Line, Mic, AES/EBU)	Bit depth	16, 24 and 32 bit
	2 OUTPUT (Line Level, AES/EBU)	Latency	based on user selection; min. 0,25 ms (Dante®)
Supported sampling rates	44.1 / 48 / 88.2 / 96 kHz	Ethernet connection	1.000 BASE-T (supporting PoE)

### ELECTRICAL DATA

Power consumption	< 6 Watt	Power supply	PoE (Power over Ethernet) switch or PoE midspan power injector (according to IEEE 802.3af/at, class 2 or no classification at 6W)
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### Analog Input

Equivalent Input Noise	-128 dBu (67 dB Gain); A-Weighted	THD+N:	< 0.005% (20 Hz to 20 kHz, +4 dBu)
Gain Hub (3dB Steps)	0 - 67 dB	Dynamic Range:	>112 dB, BW 22.4 kHz, A-Weighted (Input Gain = min.)
Max. Input Level	+ 24 dBu (PAD enabled) + 8 dBu (PAD disabled)	SNR:	> 112 dB, BW 22.4 kHz, A-Weighted
Input Impedance	> 7.5 k $\Omega$ balanced	Crosstalk:	- 100 dB, adjacent INPUT / OUTPUT channels (Input Gain = min.)
Frequency Response	20 Hz to 20 kHz ( $\pm$ 0.5 dB)		

### Analog Output

Max. Output Level	+ 24 dBu	THD+N:	< 0.005% (20 Hz to 20 kHz, +4 dBu)
Output Impedance	< 150 $\Omega$ balanced	Dynamic Range:	> 112 dB, BW 22.4 kHz, A-Weighted
Residual output noise	- 88 dBu, A-Weighted	SNR:	> 112 dB, BW 22.4 kHz, A-Weighted
Frequency Response	20 Hz to 20 kHz ( $\pm$ 0.5 dB)	Crosstalk:	- 100 dB, adjacent INPUT / OUTPUT channels, Input Gain = Min.

### MECHANICAL

Weight	0,53 kg / 1.17 lbs		
Dimensions	l: 164 mm / 6.4 inches	Dimensions	l: 151 mm / 5.9 inches
with rubber protection	w: 82 mm / 3.2 inches	without rubber protection	w: 66 mm / 2.6 inches
	h: 51 mm / 2.0 inches		h: 41 mm / 1.6 inches

# NA2-IO-DLINE

## TECHNICAL DATA



### GENERAL SPECIFICATIONS

Channel	2 INPUT (Line Level)	Bit depth	16, 24 and 32 bit
	2 OUTPUT (Line Level)	Latency	based on user selection 1 ms (default)
Supported sampling rates	44.1 / 48 / 88.2 / 96 kHz	Ethernet connection	100 BASE-TX (supporting PoE)

### ELECTRICAL DATA

Power consumption	< 2 Watt	Power supply	PoE (Power over Ethernet) switch or PoE midspan power injector (according to IEEE 802.3af/at, class 1)
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### Analog Audio Input

Input impedance	6.6 kOhm	Signal to Noise Ratio	> 100 dB
Input Level (Balanced)	22 dBu max.	THD + Noise	< 0.01% @ + 4 dBu, A-Weighting
Frequency Response	20 Hz to 20 kHz (+/- 0.5 dB)	Crosstalk	< -80 dB @ 20 kHz
Dynamic Range	> 100 dB		

### Analog Audio Output

Output impedance	< 800 Ohm	Signal to Noise Ratio	> 100 dB
Output Level (Balanced)	16 dBu max.	THD + Noise	< 0.01% @ + 4 dBu, A-Weighting
Frequency Response	20 Hz to 20 kHz (+/- 0.5 dB)	Crosstalk	< -80 dB @ 20 kHz
Dynamic Range	> 100 dB		

### MECHANICAL

Weight	0,44 kg / 1.0 lbs		
Dimensions	l: 164 mm / 6.4 inches	Dimensions	l: 151 mm / 5.9 inches
with rubber protection	w: 82 mm / 3.2 inches	without rubber protection	w: 66 mm / 2.6 inches
	h: 51 mm / 2.0 inches		h: 41 mm / 1.6 inches

# NPS-30W

## TECHNICAL DATA



### ELECTRICAL DATA

Input voltage range	100 – 240 VAC	Output voltage	48 VDC
Input frequency range	50 – 60 Hz	Output max. current	0.63 A
Input max. current	0.75 A	Rated Power	30 W

### MECHANICAL

Weight	0,53 kg / 1.17 lbs		
Dimensions	l: 164 mm / 6.4 inches	Dimensions	l: 151 mm / 5.9 inches
with rubber protection	w: 82 mm / 3.2 inches	without rubber protection	w: 66 mm / 2.6 inches
	h: 51 mm / 2.0 inches		h: 41 mm / 1.6 inches

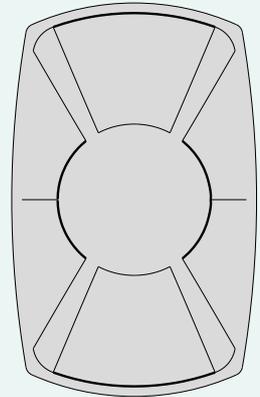
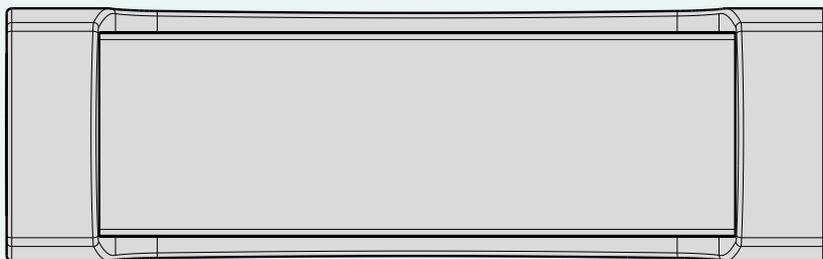
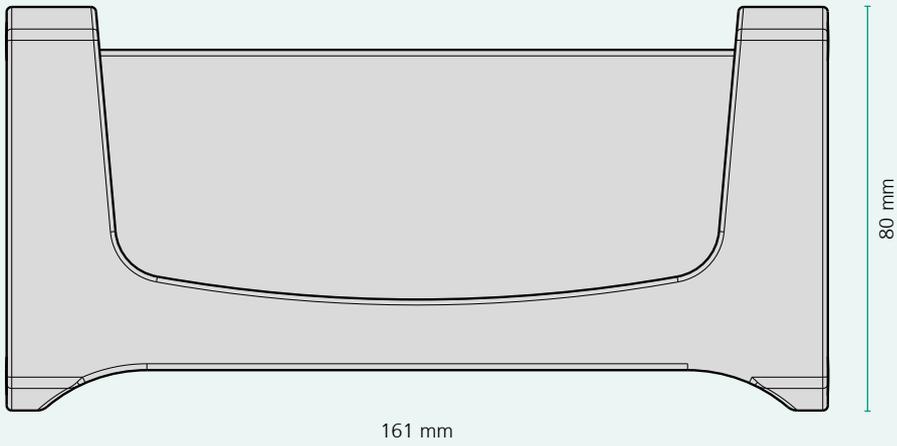
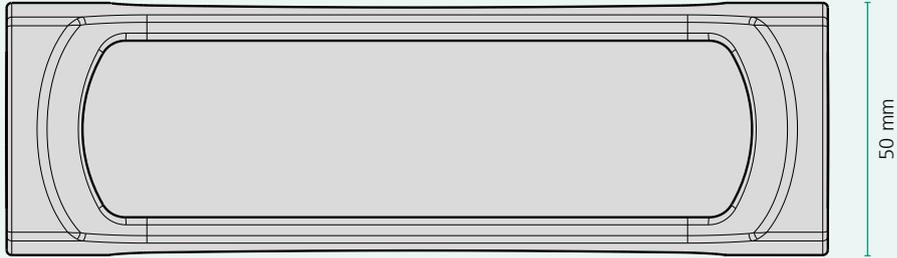
### OPERATING ENVIRONMENT INDOOR

Operating temperature	-5°C to +50°C	Storage temperature	-40°C to +100°C
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### ORDERING INFORMATION

NPS-30W-B	NPS-30W + power cable (3m; NEMA5 / Plug Type B)
NPS-30W-F	NPS-30W + power cable (3m; Schuko / Plug Type F)
NPS-30W-G	NPS-30W + power cable (3m; BS1363 / Plug Type G)
NPS-30W-J	NPS-30W + power cable (3m; SEV1011 / Plug Type J)
NPS-30W-WOC	NPS-30W without power cable

# MECHANICAL DIMENSIONS



# MOUNTING ACCESSORIES

## NA-MB-KIT

Mounting bracket kit for NA2-IO-DLINE / NA2-IO-DPRO / NPS-30W



## NA-TM-KIT

Truss mount kit for NA2-IO-DLINE / NA2-IO-DPRO / NPS-30W



## NRP1RU-2A

1 RU 19" RACK unit for NA2-IO-DLINE / NA2-IO-DPRO / NPS-30W





# AUDIO NETWORK SOLUTIONS

NA2-IO-DPRO / NA2-IO-DLINE / NPS-30W

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