Dante®

AUDIO NETWORK SOLUTIONS

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

NEUTRIK®

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 a 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.

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NA2-IO-DPRO
MIC, LINE, AES/EBU TO DANTE® INTERFACE

OVERVIEW FRONT

HPF/Pad

Phantom power 48V

Signal Present

Output MUTE

System Ready

Input type – ● Analog / ● AES

Output type – ● Analog / ● AES

If AES is used, CH1 becomes inactive

Balanced XLR Input:
⇥ Input 1 Analog only

Balanced XLR Input:
⇥ Input 2 Analog/AES

Balanced XLR Output:
Output 2 Analog/AES ⇥

Balanced XLR Output:
Output 1 Analog only ⇥

OVERVIEW REAR

Link (Ethernet connection established)

Active (Data transmission established)

Reset Button

etherCON® chassis for
Primary Dante® Interface/PoE input

etherCON® chassis for Secondary Dante®
Interface/Feedthrough/PoE input (Redundant
mode for standalone redundant purpose,
Switched mode for daisy-chaining)

IMPORTANT
• Requires a Power over Ethernet switch or a PoE injector (802.3 af/at/bt)
• Please refer to the manual for redundant power setups

REDUNDANT MODE

Audio only
Data only
Data + Power
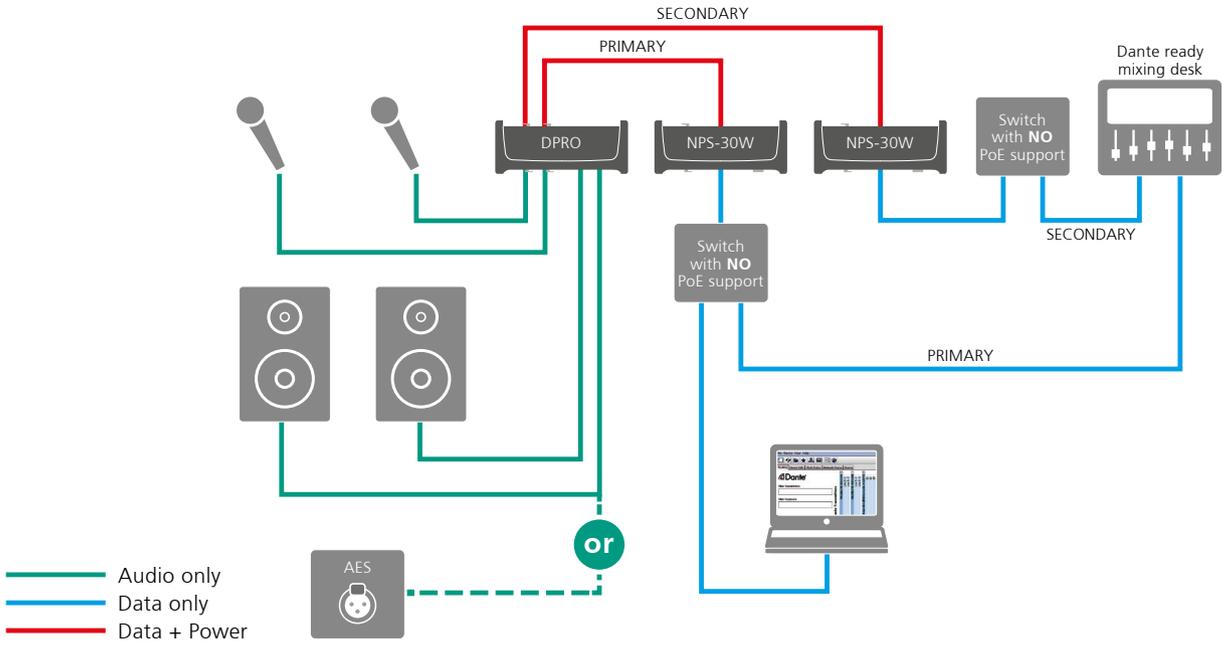
SWITCHED MODE

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

Audio only
Data only
Data + Power
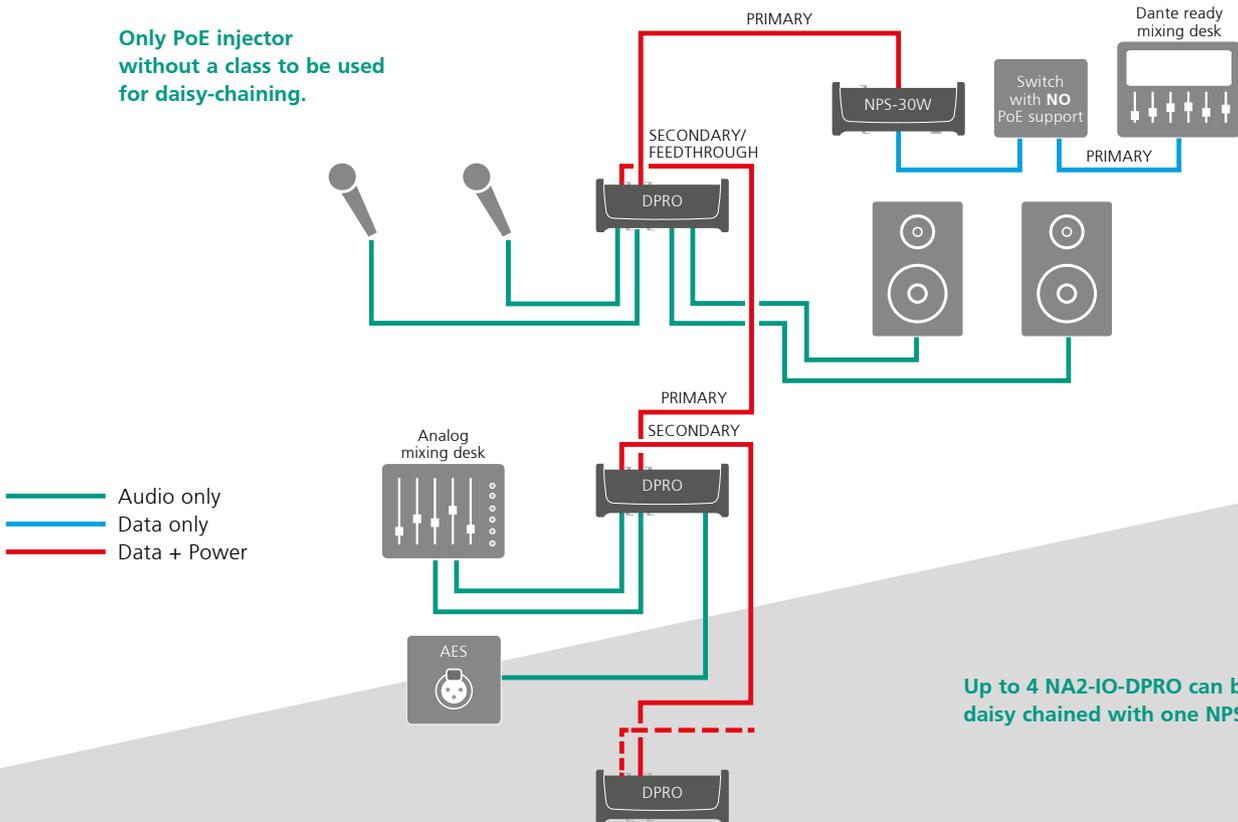
**Up to 4 NA2-IO-DPRO can be
daisy chained with one NPS-30W.**

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

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NA2-IO-DLINE
LINE I/O TO DANTE® INTERFACE
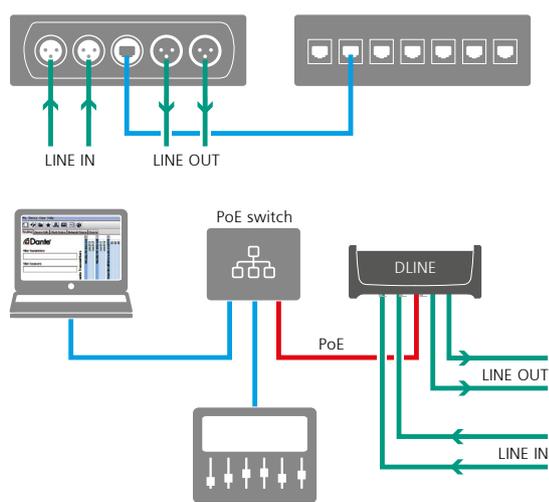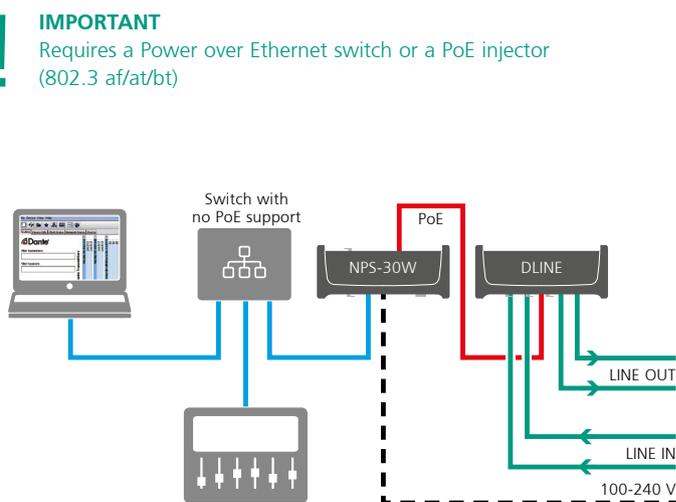
OVERVIEW FRONT

etherCON® chassi for connection to the Dante® network

Balanced XLR Inputs

Balanced XLR Outputs

Status LED network

Dante® SYNC LED

Dante® SYS LED

POWER SETUP

LINE IN   LINE OUT

! **IMPORTANT**
Requires a Power over Ethernet switch or a PoE injector (802.3 af/at/bt)

PoE switch

DLINE

or

Switch with no PoE support

PoE

NPS-30W   DLINE

PoE

LINE OUT

LINE IN

LINE OUT

LINE IN

100-240 V

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

INPUT APPLICATION

Analog
mixing desk

PoE switch

Dante ready
mixing desk

DLINE

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

OUTPUT APPLICATION

Dante ready
mixing desk

PoE switch

DLINE

LINE OUT

LINE OUT

- ———— Audio only
- ———— Data only
- ———— Data + Power
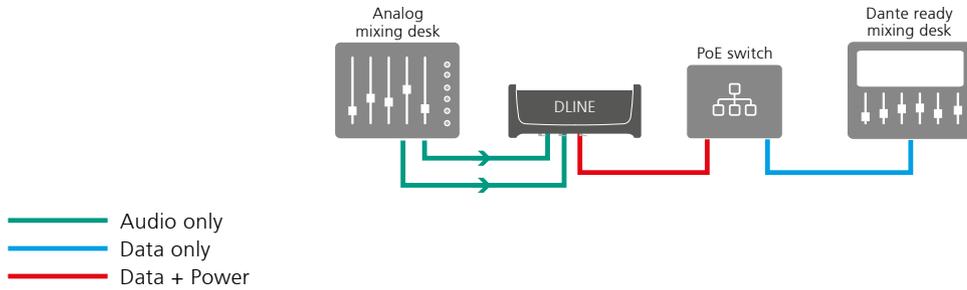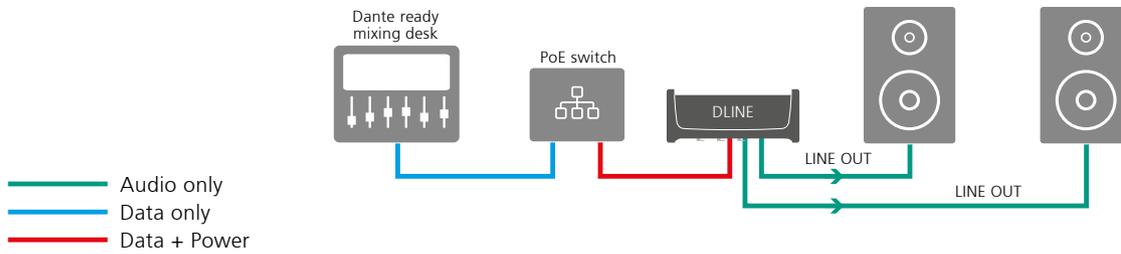
INPUT & OUTPUT APPLICATION (MIXED MODE)

Dante ready
mixing desk

PoE switch

DLINE

Headphone
Amp

LINE OUT

LINE OUT

LINE IN

- ———— Audio only
- ———— Data only
- ———— Data + Power
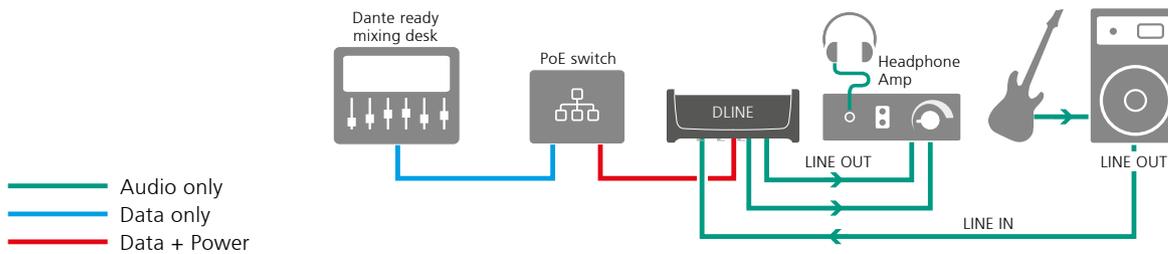
NPS-30W
POWER OVER ETHERNET SUPPLY

OVERVIEW FRONT

etherCON® chassi for connection
to the Dante® network: PoE + Data OUT

NPS-30W
Gigabit PoE Supply

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PWR   PoE

Power LED

OVERVIEW REAR

etherCON® chassi for connection
to the Dante® network: PoE + Data IN

powerCON® TRUE1 TOP chassi:
Power In (100-240 V)

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AC 100-240 V ~ 50/60 Hz max. 0.75 A

LAN   NEUTRIK
www.neutrik.com   PWR   Power IN

Power LED

POWER AND DATA REDUNDANCY (WITH NEUTRIK NETWORK DEVICES)
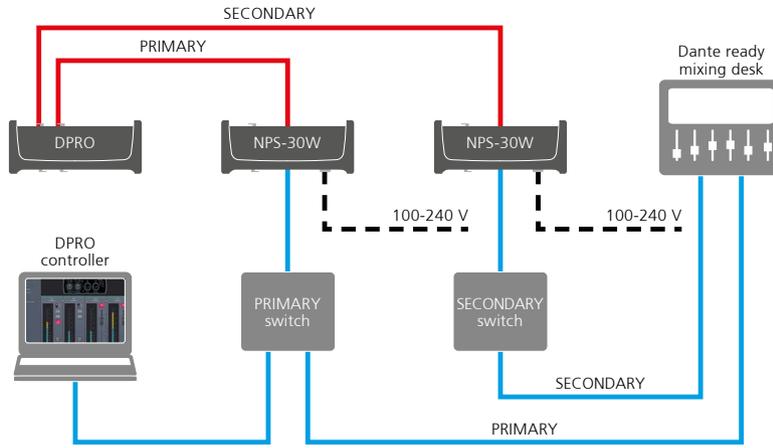

Data only
Data + Power
Power only

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)

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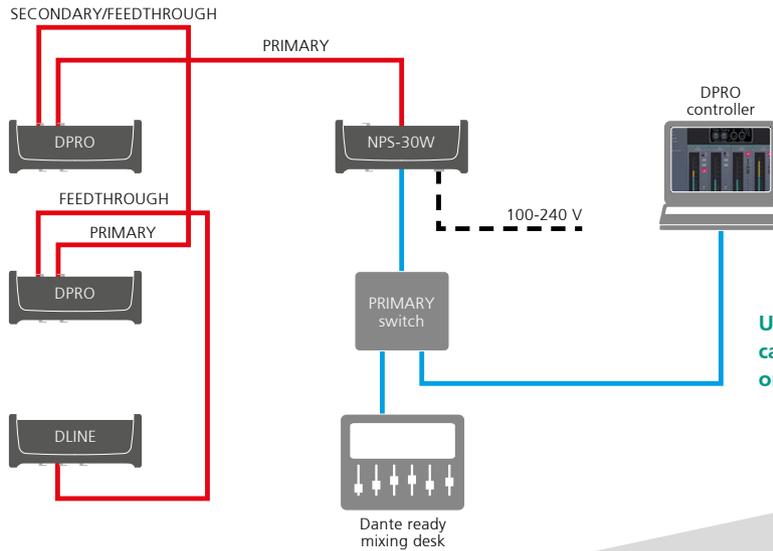
Up to 4 NA2-IO-DPRO can be daisy chained with one NPS-30W PoE supply

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APPLICATIONS

NA2-IO-DLINE

NA2-IO-DPRO

NPS-30W

NPS-30W
Gigabit PoE Supply

PWR   PoE

NEUTRIK

/PoE   OUT 1   Line   OUT 2

SYS   SYNC

NEUTRIK

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 digital mixing console, a control plugin for the Q-SYS platform or a module from Crestron's application market.
For further applications, a complete AES70 API is available on request.

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

Remote functions for fixed installations

Neutrik's NA2-IO-DPRO features full integration within a QSC or Crestron environment.

A QSC approved control plugin as well as a Crestron module are available in the correspondent application market for free.

With this, designers can fully integrate the DPRO into the Q-SYS designer software or Crestron control products to 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 and Crestron environment!

MIC PREAMP CONTROL VIA YAMAHA CL/QL SERIES CONSOLES

With the 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.

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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 802.3 af/at/bt)

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
Max. Input Level	+ 24 dBu (PAD enabled)		(Input Gain = min.)
	+ 8 dBu (PAD disabled)	SNR:	> 112 dB, BW 22.4 kHz, A-Weighted
Input Impedance	> 7.5 kΩ balanced	Crosstalk:	- 100 dB, adjacent INPUT / OUTPUT
Frequency Response	20 Hz to 20 kHz (± 0.5 dB)		channels (Input Gain = min.)

Analog Output

Max. Output Level	+ 24 dBu	THD+N:	< 0.005% (20 Hz to 20 kHz, +4 dBu)
Output Impedance	< 150 Ω 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 (± 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 802.3 af/at/bt)

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

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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

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

50 mm

80 mm

161 mm

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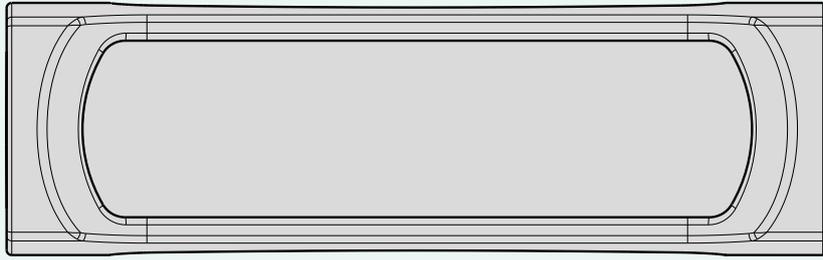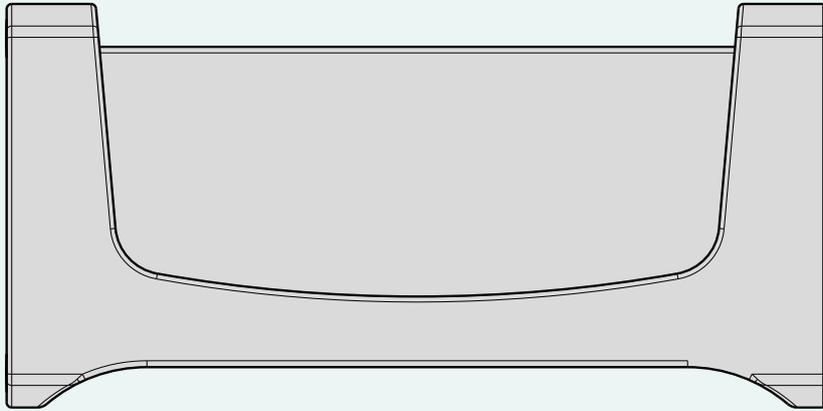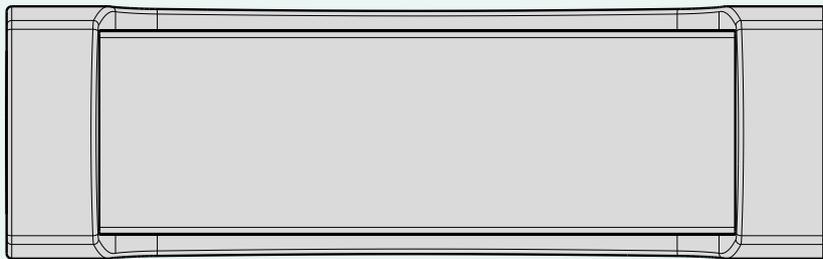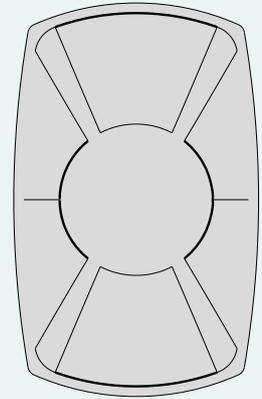
MOUNTING ACCESSORIES

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

NA-MB-KIT
Mounting bracket 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

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