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

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.

The NPS-30W is a Gigabit Power over Ethernet Supply with 30 W PoE budget. It is a passive power supply, power-negotiation is not supported and power is delivered at all times.

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.

**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
OVERVIEW FRONT

- Phantom power 48V
- Signal Present
- Output MUTE

OVERVIEW REAR

- Reset Button
- Link (Ethernet connection established)
- Active (Data transmission established)

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

If AES is used, CH1 becomes inactive

Balanced XLR Input:
- Input 1: Analog only
- Input 2: Analog/AES

Balanced XLR Output:
- Output 1: Analog only
- Output 2: Analog/AES

System Ready
- Input type – Analog / AES
- Output type – Analog / AES

REDUNDANT MODE

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

SWITCHED MODE

30 W PoE INJECTOR
Total of 4 devices can be daisy-chained.
**NA2-IO-DLINE**
LINE I/O TO DANTE® INTERFACE

**OVERVIEW FRONT**

- 5 Balanced XLR Inputs
- 5 Balanced XLR Outputs
- Status LED network
- etherCON® chassis for connection to the Dante® network
- Dante® SYNC LED
- Dante® SYS LED

**POWER SETUP**

**IMPORTANT**
Requires a Power over Ethernet switch or a PoE injector (802.3 af/at – class 1)

**INPUT APPLICATION**

- Audio only
- Data only
- Data + Power

**OUTPUT APPLICATION**

- Audio only
- Data only
- Data + Power

**INPUT & OUTPUT APPLICATION (MIXED MODE)**

- Audio only
- Data only
- Data + Power

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

POWER OVER ETHERNET SUPPLY

**OVERVIEW FRONT**

[Image of NPS-30W front view]

- etherCON® chassis for connection to the Dante® network PoE + Data OUT
- Power LED

**POWER OVER ETHERNET SUPPLY**

**OVERVIEW REAR**

[Image of NPS-30W rear view]

- etherCON® chassis for connection to the Dante® network PoE + Data IN
- Power LED

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

- 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-IQ-DPRO can be daisy chained with one NPS-30W PoE supply
There are several options to remote control the NA2-IO-DPRO. Depending on the application, the DPRO is being used, users can decide between: Neutrik DPRO controller software, Yamaha CL/QL mixing consoles or Control plugin for 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.

**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. Using the DPRO for example on a truss, is a convenient way to establish ambient mic’ing with short cable runs and then remote control it via Yamaha CL/QL consoles is a real improvement for a Pro AV work environment.
### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Channel</th>
<th>Supported sampling rates</th>
<th>Bit depth</th>
<th>Latency</th>
<th>Ethernet connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 INPUT (Line, Mic, AES/EBU)</td>
<td>44.1 / 48 / 88.2 / 96 kHz</td>
<td>based on user selection; min. 0.25 ms (Dante®)</td>
<td>1.000 BASE-T (supporting PoE)</td>
<td></td>
</tr>
</tbody>
</table>

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Power consumption</th>
<th>Power supply</th>
<th>PoE (Power over Ethernet) switch or PoE midspan power injector (according to IEEE 802.3af/at, class 2 or no classification at 6W)</th>
</tr>
</thead>
</table>

#### Analog Input

<table>
<thead>
<tr>
<th>Equivalent Input Noise</th>
<th>THD+N</th>
<th>Dynamic Range</th>
<th>SNR</th>
<th>Crosstalk</th>
<th>THD+N</th>
<th>Dynamic Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>-128 dBu (67 dB Gain), A-Weighted</td>
<td>&lt; 0.005% (20 Hz to 20 kHz, +4 dBu)</td>
<td>&gt;112 dB, BW 22.4 kHz, A-Weighted</td>
<td>&gt; 112 dB, BW 22.4 kHz, A-Weighted</td>
<td>-100 dB, adjacent INPUT / OUTPUT channels, Input Gain = min.</td>
<td></td>
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#### Analog Output

<table>
<thead>
<tr>
<th>Max. Output Level</th>
<th>THD+N</th>
<th>Dynamic Range</th>
<th>Crosstalk</th>
<th>THD+N</th>
<th>Dynamic Range</th>
</tr>
</thead>
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<tr>
<td>+ 24 dBu</td>
<td>&lt; 0.005% (20 Hz to 20 kHz, +4 dBu)</td>
<td>&gt; 112 dB, BW 22.4 kHz, A-Weighted</td>
<td>-100 dB, adjacent INPUT / OUTPUT channels, Input Gain = min.</td>
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### MECHANICAL

<table>
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<tr>
<th>Weight</th>
<th>Dimensions</th>
<th>with rubber protection</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.53 kg / 1.17 lbs</td>
<td>l: 164 mm / 6.4 inches</td>
<td>w: 82 mm / 3.2 inches</td>
<td>h: 51 mm / 2.0 inches</td>
</tr>
<tr>
<td></td>
<td>w: 66 mm / 2.6 inches</td>
<td>h: 41 mm / 1.6 inches</td>
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### TECHNICAL DATA

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<th>NA2-IO-DPRO</th>
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<td>2 OUTPUT (Line Level)</td>
<td>44.1 / 48 / 88.2 / 96 kHz</td>
<td>based on user selection 1 ms (default)</td>
<td>100 BASE-T (supporting PoE)</td>
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#### Analog Audio Input

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<tr>
<th>Input impedance</th>
<th>THD + Noise</th>
<th>Dynamic Range</th>
<th>Crosstalk</th>
<th>THD + Noise</th>
<th>Dynamic Range</th>
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<tr>
<td>&lt; 800 Ohm</td>
<td>-128 dBu (67 dB Gain), A-Weighted</td>
<td>&gt; 112 dB, BW 22.4 kHz, A-Weighted</td>
<td>&lt; -80 dB @ 20 kHz</td>
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#### Analog Audio Output

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<th>Max. Output Level</th>
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</tr>
</tbody>
</table>
### TECHNICAL DATA

#### ELECTRICAL DATA
- **Input voltage range**: 100 – 230 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**
  - With rubber protection:
    - **L**: 164 mm / 6.4 inches
    - **W**: 82 mm / 3.2 inches
    - **H**: 51 mm / 2.0 inches
  - Without rubber protection:
    - **L**: 151 mm / 5.9 inches
    - **W**: 66 mm / 2.6 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

### MOUNTING ACCESSORIES

#### NA-MB-KIT
Mounting bracket kit for NA2-IO-XXX / NPS-30W

#### NA-TM-KIT
Truss mount kit for NA2-IO-XXX / NPS-30W

#### NRP1RU-2A
1 RU 19" RACK unit for NA2-IO-XXX / NPS-30W