



Technical Paper | NA2-IO-DPRO

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Technical Paper – NA2-IO-DPRO

Title: NTP13 V1

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Neutrik AG
Im alten Riet 143
9494 Schaan
Liechtenstein

Author: Wolfgang Hasler
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1 IP addresses

Although NA2-IO-DPRO has two physical network ports, it hosts 3 network interfaces:

- Device (1)
- Primary (2)
- Secondary (3)

Each interface has its own MAC address and requires that a unique IP Address be assigned.

The corresponding three MAC addresses are listed on the serial number label at the bottom of the device.



figure 1: MAC addresses on serial number label

MAC Dev. (Device) is used for communication with the DPRO Controller. **MAC Prim.** (Primary) and **MAC Sec.** (Secondary) are used for communication with Dante Controller.

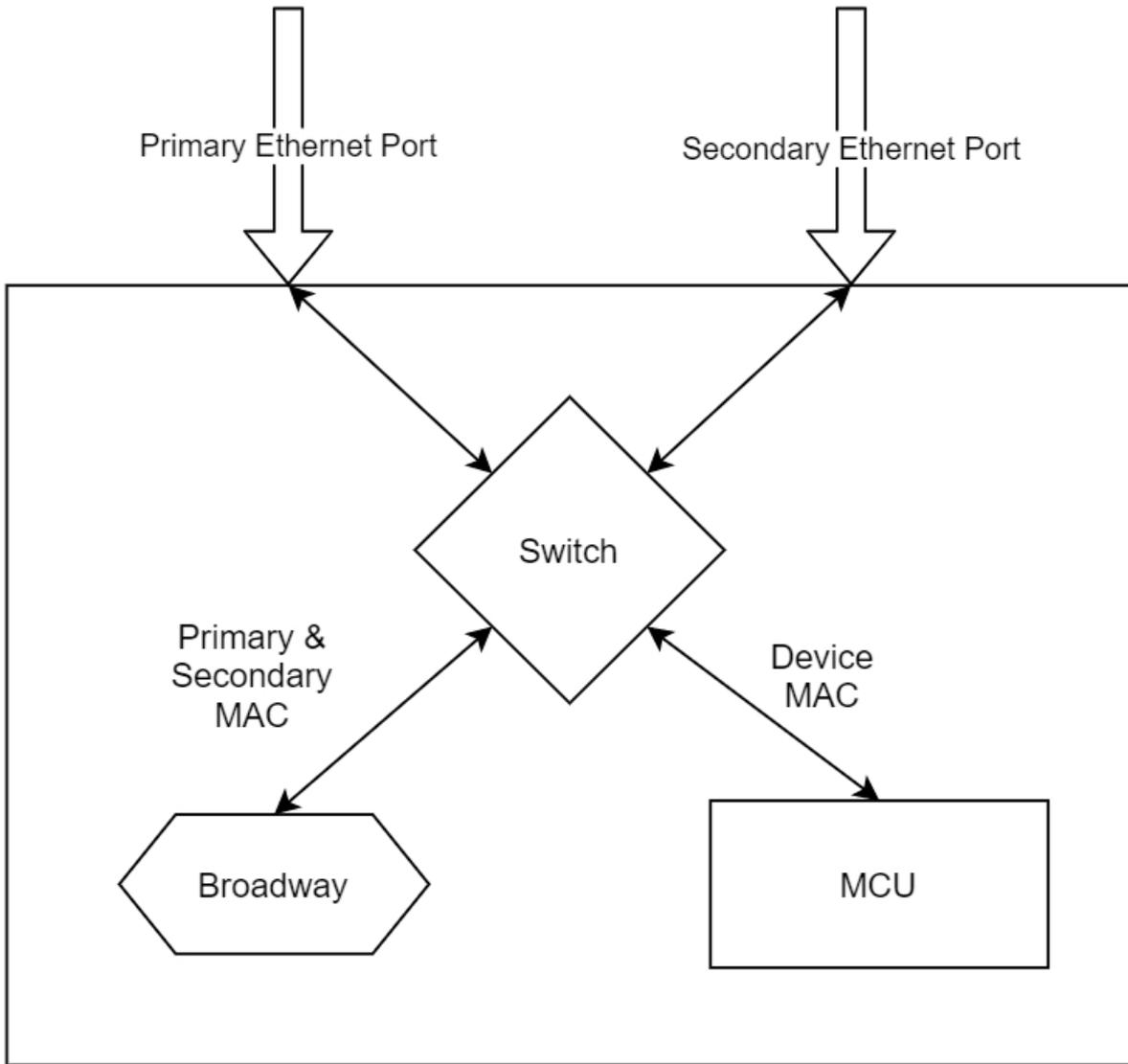


figure 2: ethernet connections

Be sure the PC (for remote control) and the device are in the same subnet range.

By default, the device interface obtains its IP address automatically by using DHCP.

Follow **Device – Network Settings** in DPRO Controller to change between AUTOMATIC and MANUAL IP settings.

To set a static IP address:

1. Choose **MANUAL**.
2. Click the pencil.
3. Type in your defined static IP address.
4. Click **SET STATIC IP ADDRESS** to save settings.
5. Click **REBOOT NOW**. (The device will use the static IP after reboot.)

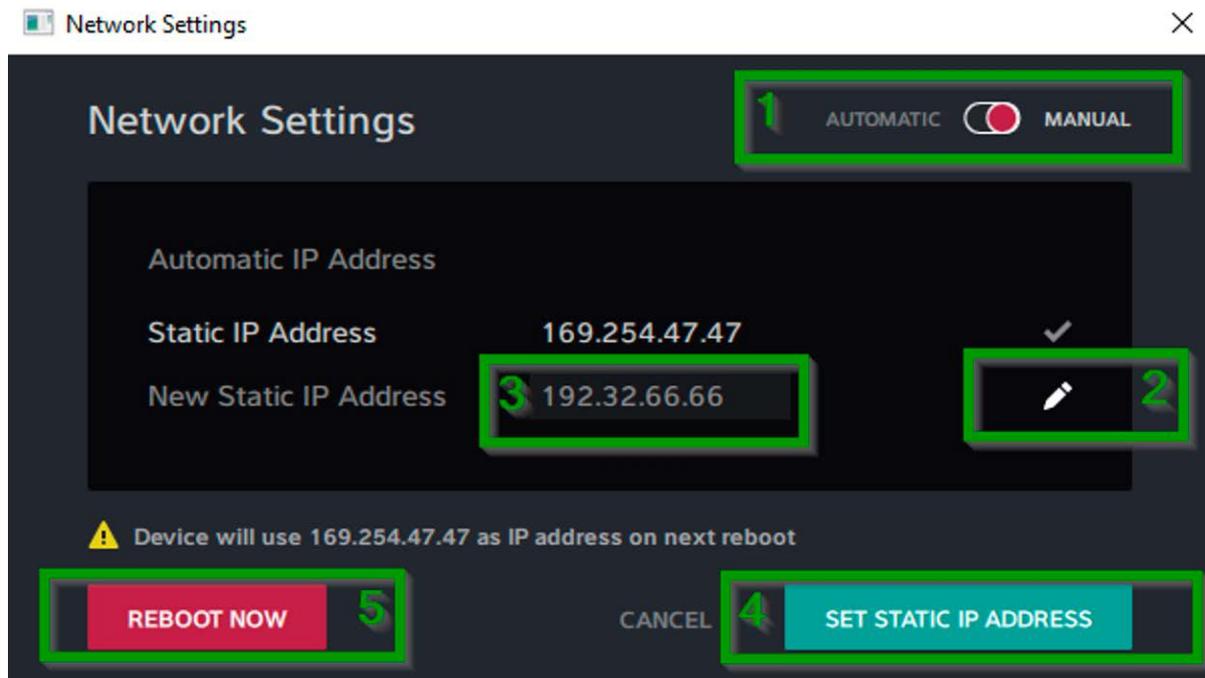


figure 3: network setting within DPRO controller

2 Input & Output section in DPRO Controller

The mode in which the device operates (Analog or AES/EBU) is defined by the physical XLR connections made to it - not by the DPRO controller software.

If there is **no physical connection** to the input/output XLR connectors of the device, the I/O section and the corresponding audio parameters are greyed out in the DPRO Controller. No audio adjustments can be made at this time.



Figure 4: I/O section in DPRO Controller

As soon as a physical XLR connection is made on the device, the I/O section appears, configured according to that XLR connection. The I/O section can then be adjusted.



In other words, the software follows what is connected physically to the device.

If there is a mismatch between the device's physical XLR connections and the presets in the DPRO Controller, the UI will inform the user.

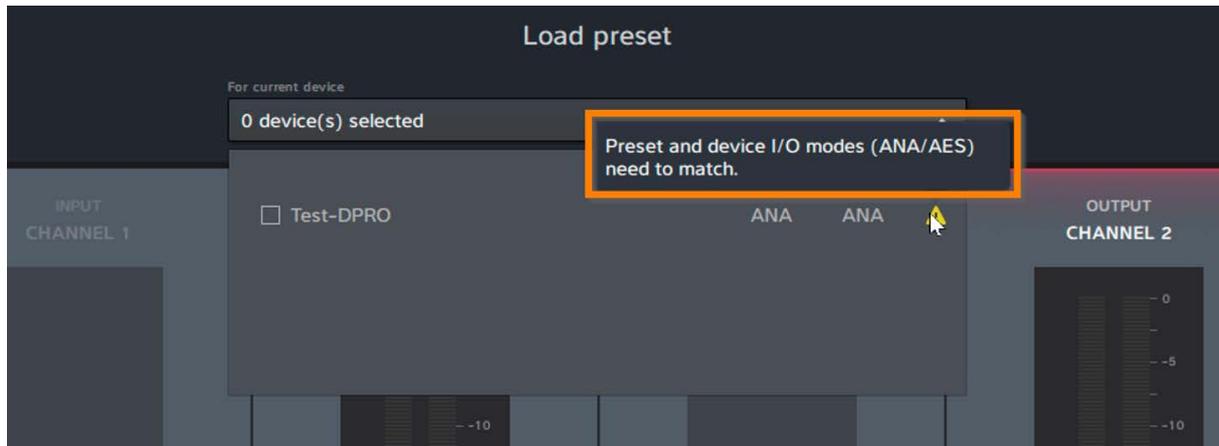


figure 5: mismatch when loading a preset

For example, a preset that includes analog inputs will not load unless a cable is plugged into input channel

3. Switching contacts on XLR connectors

NA2-IO-DPRO uses Neutrik's switching XLR chassis connectors for both Input and Output connections. These switching XLR connectors detect whether or not a cable is plugged into them.

Physical XLR connections must be made to set the signal type (analog signal or AES/EBU signal).

- If the signal is analog, connect **channel 1 (mono) or channel 1 and 2** (stereo).
- If the signal is AES/EBU, connect **channel 2 only**.

This is true for the inputs as well as the outputs.

AES/EBU carries two separate signals over one physical cable. Therefore, AES/EBU occupies both channels, and channel 1 becomes inactive.

It is not possible to combine an analog signal on channel 1 and AES/EBU on channel 2, as this would mean three separate signals are present. In this case, channel 1 will have priority, and only the analog signal will be present.

Liechtenstein (Headquarters)

Neutrik AG, Im alten Riet 143, 9494 Schaan
T +423 237 24 24, F +423 232 53 93, neutrik@neutrik.com

Germany / Netherlands / Denmark / Austria

Neutrik Vertriebs GmbH, Felix-Wankel-Straße 1, 85221 Dachau, Germany
T +49 8131 28 08 90, info@neutrik.de

Great Britain

Neutrik (UK) Ltd., Westridge Business Park, Cothey Way
Ryde, Isle of Wight PO33 1 QT
T +44 1983 811 441, sales@neutrik.co.uk

France

Neutrik France SARL, Rue du Parchamp 13, 92100 Boulogne-Billancourt
T +33 1 41 31 67 50, info@neutrik.fr

USA

Neutrik USA Inc., 4115 Taggart Creek Road, Charlotte, North Carolina, 28208
T +1 704 972 3050, info@neutrikusa.com

Japan

Neutrik Limited, Yusen-Higashinohonbashi-Ekimaie Bldg., 3-7-19
Higashinohonbashi, Chuo-ku, Tokyo 103
T +81 3 3663 47 33, mail@neutrik.co.jp

Hong Kong

Neutrik Hong Kong LTD., Suite 18, 7th Floor Shatin Galleria
Fotan, Shatin
T +852 2687 6055, neutrik@neutrik.com.hk

China

Ningbo Neutrik Trading Co., Ltd., Shiqi Street, Yinxian Road West
Fengjia Villiage, Hai Shu District, Ningbo, Zhejiang, 315153
T +86 574 88250488 800, neutrik@neutrik.com.cn

India

Neutrik India Pvt. Ltd., Level 3, Neo Vikram, New Link Road,
Above Audi Show Room, Andheri West, Mumbai, 400058
T +91 982 05 43 424, anklesaria@neutrik.com

Associated companies

Contrik AG

Steinackerstrasse 35, 8902 Urdorf, Switzerland
T +41 44 736 50 10, contrik@contrik.ch

H. Adam GmbH

Felix-Wankel-Straße 1, 85221 Dachau, Germany
T +49 08131 28 08-0, info@adam-gmbh.de



www.neutrik.com