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Bus-Powered StageConnect Interface with 8x8 Analogue In/Out and Dual Ultranet Outputs

1. INTRODUCTION

The MIDAS DN4888 is an 8x8 line-level StageConnect interface designed to expand the analog input and output capabilities of compatible digital mixers, such as the Behringer WING. It features 8 combo jack inputs and 8 XLR outputs, facilitating the integration of line-level equipment like wireless microphones, in-ear transmitters, or outboard hardware inserts. The unit utilizes the StageConnect protocol for ultra-low latency audio transmission and offers dual Ultranet outputs for seamless integration with personal monitoring systems.



Figure 1: Front view of the MIDAS DN4888 StageConnect Interface.

2. SETUP

2.1 Unpacking and Initial Inspection

Carefully remove the DN4888 from its packaging. Inspect the unit for any signs of damage during transit. Ensure all components are present.

2.2 Powering the Unit

The DN4888 is bus-powered via the StageConnect XLR connection when connected to a compatible mixer. In this configuration, an external power supply is not required. For standalone operation or when additional power is needed, connect the provided 12V DC power adapter to the 'DC INPUT' port on the rear panel.



Figure 2: Rear panel highlighting the DC Input and StageConnect power capabilities.

2.3 Connecting to a Mixer (StageConnect)

Connect a high-quality 110-ohm XLR cable, rated for DMX and digital audio, from the StageConnect 'MASTER' port on your digital mixer to the 'SLAVE' port on the DN4888. This single cable transmits 32 channels of uncompressed audio at sub-millisecond latency and provides power to the DN4888.

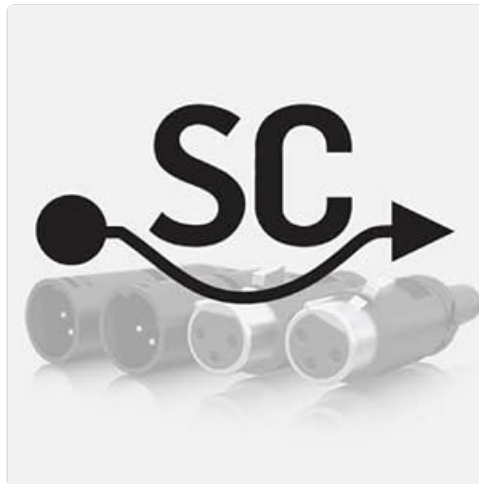


Figure 3: Illustration of StageConnect XLR cable connection.

2.4 Connecting Ultranet Devices

The DN4888 features two Ultranet outputs (OUTPUT 1 and OUTPUT 2) for connecting Behringer P16-M personal monitoring mixers. OUTPUT 1 carries StageConnect channels 1-16, while OUTPUT 2 carries the 8 onboard analog input signals (ANALOGUE IN 1-8). Note that these Ultranet ports do not provide power to the P16-M units; they must be powered locally.



Figure 4: Rear panel showing Ultranet outputs.

2.5 Daisy-Chaining Multiple Units

Multiple DN4888 units, or other StageConnect devices, can be daisy-chained. Connect the 'MASTER' StageConnect output of the first unit to the 'SLAVE' input of the next unit in the chain. Up to 11 devices can be connected in a chain, supporting a maximum of 32 channels total and a total cable distance of approximately 40 meters (130 feet). Audio can be routed between the leader (mixer) and followers, but not directly between followers.



Figure 5: Example of cascading multiple StageConnect interfaces.

3. OPERATION

3.1 Front Panel Overview

The front panel of the DN4888 features 8 balanced XLR line outputs (OUT 1-8) and 8 balanced combo jack inputs (IN 1-8). These inputs accept both XLR and 1/4-inch TRS/TS connectors, providing flexibility for various line-level sources.



Figure 6: Front panel showing analog I/O ports.

3.2 Rear Panel Overview

The rear panel includes the DC input, a USB port (for firmware updates only), two Ultranet outputs, and the StageConnect Master/Slave XLR ports. Additionally, there are switches for StageConnect Synchronization and Output Mode.



Figure 7: Rear view of the DN4888, showing all connections and switches.

3.3 StageConnect Synchronization

The 'StageConnect Synchronisation' switch allows you to set the unit as 'SLAVE' or 'MASTER'. In a typical setup, your digital mixer will act as the master clock, and the DN4888 units will be set to 'SLAVE'.

3.4 Output Modes

The 'OUTPUT MODE' switch offers several options for routing audio:

- **8x8:** In this mode, the first 8 channels of StageConnect audio are routed to the 8 analog outputs of the unit. When using Ultramet, only channels 1-8 will be active.
- **16x8:** This mode allows access to all 16 channels of StageConnect audio via the Ultramet ports, while the analog outputs still receive the first 8 channels.
- **Individual:** When multiple units are daisy-chained, 'Individual' mode routes outputs 1-8 to the XLR outputs of the first unit, and outputs 9-16 to the XLR outputs of the second unit, and so on.
- **Shared:** In 'Shared' mode, outputs 1-8 are routed to the XLR outputs of *all* connected units in the chain. This is useful for distributing the same 8 channels to multiple locations.

Utilize the StageConnect Calculator tool (available from MIDAS) to plan complex routing configurations effectively.



Figure 8: StageConnect Calculator for planning device configurations.

4. MAINTENANCE

4.1 Cleaning

To clean the unit, use a soft, dry cloth. Do not use abrasive cleaners, solvents, or waxes. Ensure the unit is powered off and disconnected from all sources before cleaning.

4.2 Storage

Store the DN4888 in a cool, dry place away from direct sunlight and extreme temperatures. If storing for extended periods, ensure it is protected from dust and moisture.

5. TROUBLESHOOTING

5.1 No Power/No Signal

- Verify that the StageConnect XLR cable is securely connected between the mixer (Master) and the DN4888 (Slave).
- If using an external power supply, ensure it is correctly connected and the power outlet is functional.
- Check the status indicator lights on the unit for any error signals.

5.2 Audio Dropouts or Interference

- Ensure you are using a high-quality 110-ohm XLR cable rated for DMX and digital audio.
- Check the total cable length in your StageConnect chain; it should not exceed 40 meters (130 feet).
- Verify that the StageConnect Synchronization switch is correctly set (SLAVE for the DN4888).
- Confirm that the Output Mode settings on all units are appropriate for your routing configuration.

5.3 Ultranet Connectivity Issues

- Ensure standard Ethernet cables are used for Ultranet connections.
- Confirm that connected P16-M units are receiving local power.
- Check the Ultranet output mode settings on the DN4888 (8x8 or 16x8) to ensure the correct channels are being transmitted.

6. SPECIFICATIONS

Brand	MIDAS
Model Number	DN4888
Item Type Name	Mixer Accessory
Connectivity Technology	XLR
Number of Channels	32 (StageConnect)
Audio Input	8 x XLR/TRS Combo Jacks
Audio Output	8 x XLR Outputs, 2 x Ultranet Outputs
Maximum Sample Rate	48 KHz
Latency (StageConnect)	0.05 milliseconds (per direction)
Item Weight	2.9 Kilograms
Manufacturer	Music Tribe

7. WARRANTY

For detailed warranty information, please refer to the official MIDAS website or the Community.Musictribe.Com platform. Warranty terms and conditions may vary by region and product.

8. SUPPORT

For technical assistance, product registration, or further inquiries, please visit the official MIDAS support website or contact your local distributor. Online resources, including FAQs and additional documentation, are available to help you maximize your experience with the DN4888 StageConnect Interface.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Example: How do I reset this device or fix this error?

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Model number, symptoms, what you tried, or the section of the manual you are using.

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