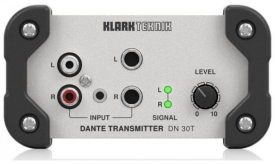

KLARK TEKNIK DN4816U Bus-Powered StageConnect Interface Bridge User Guide

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KLARK TEKNIK DN4816U Bus-Powered StageConnect Interface Bridge

Important Safety Instructions

Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

- This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.
- This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.
- Caution
  To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.
- Caution
  To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture.
  The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Caution
  These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

  1. Read these instructions.
  2. Keep these instructions.
  3. Heed all warnings.
  4. Follow all instructions.
  5. Do not use this apparatus near water.
  6. Clean only with dry cloth.
  7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
  8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
  9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet,
     consult an electrician for replacement of the obsolete outlet.
  10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
  11. Use only attachments/accessories specified by the manufacturer.
  12. Use only
      with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
  13. Unplug this apparatus during lightning storms or when unused for long periods of time.
  14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been

damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEEDirective (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus.
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.
21. This apparatus may be used in tropical and moderate climates up to 45°C.

LEGAL DISCLAIMER

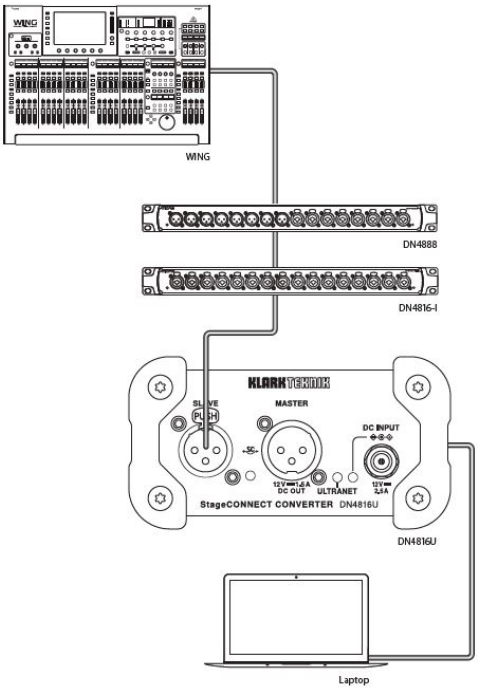
Music Tribe accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications, appearances and other information are subject to change without notice. All trademarks are the property of their respective owners. Midas, Klark Teknik,

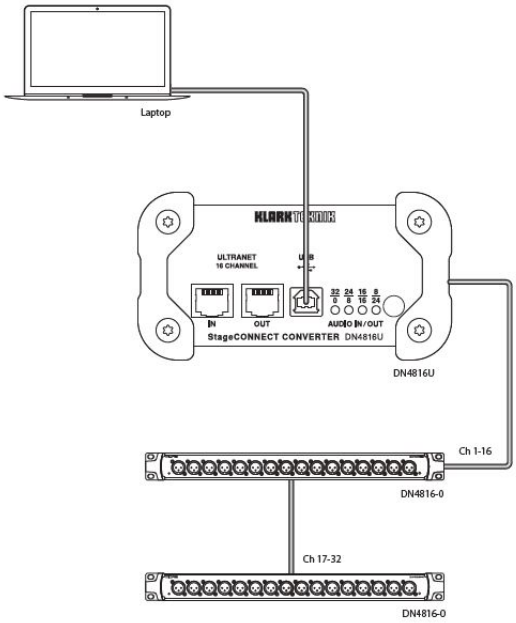
LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe’s Limited Warranty, please see complete details online at musictribe.com/warranty.

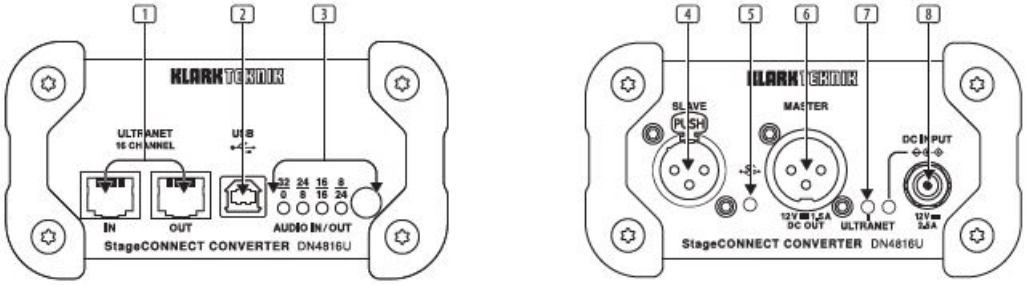
DN4816U Hook-up

- Step 1: Hook-Up





DN4816U Controls



1. ULTRANET IN/OUT –Connect 16 channels of audio to and from other Ultranet devices via Cat5e cable.
2. USB – Transmits a total of 32 channels to and from a connected computer.
3. AUDIO IN/OUT – Press the button to cycle through 4 I/O configurations.
4. SLAVE – Connects to a Master unit or chain of other Slave devices, and potentially receives 12 V of bus

power.

5. CONNECTION LED –Lights to indicate successful connection to a StageConnect chain.
6. MASTER – Connects to other units in a chain, either as the Master unit or as a Slave linking to other Slave units. If a power adapter is connected, this connection can also send power to other units.
7. ULTRANET LED – Lights to indicate successful connection to another Ultranet device.
8. DC INPUT – Connect the included 12 V DC power supply for any units that cannot be powered via StageConnect bus. The adjacent LED lights whenever power is received from an external adapter or via StageConnect bus.

The StageCONNECT Manifesto

1. There is always one Master device and up to 11 Slave devices in a StageConnect chain.
2. The Master is always the first device in the chain.
3. The StageConnect chain starts at an XLR male connector and ends with an XLR female connector.*
4. Audio can only be transferred between Master and Slaves but not between Slaves and other Slaves.
5. Audio outputs always come from the Master.
6. Audio inputs are always sent straight to the Master.
7. The Master configures the StageConnect bus.
8. The first Slave unit after the Master has the highest priority.
9. Changes in the Chain shall not be done on the run.
    1. Just like a microphone connected to an analog input.
    2. This will interrupt audio for 2 seconds, while the bus is reconfigured.

DN4816U Getting Started

Signal Routing

DN4816U can well be described as Pandoras Box since it is designed to automatically adjust its routing depending on the connected equipment. It should be noted that every interface impacts the routing except for the Ultranet output. The following list shows the selected I/O configuration and routing depending on the detected connections.

Connections in use				Description	In/Out Config	
SC SLAVE”	**SC MASTER”**	**“Ultranet Input ”**	**USB**	**SC = StageConnect**	**StageConnect**	**USB Interface**
			✓	USB Play à Ultranet Out	–	16 Rec/16 Play
		✓	✓	USB Play à Ultranet Out Ultranet In à USB Rec	16/16	16 Rec/16 Play
		✓		Ultranet In à Ultranet Out	16/16	
	✓	✓		Ultranet In à SC and Ultranet Out	16/16	
	✓	✓	✓	Ultranet In à SC, Ultranet Out and USB Rec	16/16	32 Rec**
	✓		✓	USB Play à SC SC Master Port à USB Rec and Ultranet Out	Depends on Config.*	Depends on Config.*
	✓			SC Master Port à Ultranet Out	16/0	
✓	✓			SC Slave Port à Ultranet Out	16/0	
✓	✓		✓	USB Play à SC Slave Port SC Slave Port à USB Rec and Ultranet Out	Depends on Config.*	Depends on Config.*
✓	✓	✓	✓	USB Play à SC Slave Port SC Slave Port à USB Rec and Ultranet Out Ultranet In à USB Rec	16/16	32 Rec**
✓	✓	✓		SC Slave Port à Ultranet Out Ultranet In à SC Slave Port	16/16	
✓		✓		Ultranet In à SC Slave Port SC Slave Port à Ultranet Out	16/16	
✓		✓	✓	Ultranet à SC Slave Port and USB Rec USB Play à SC Slave Port SC Slave port à USB Rec	16/16	32 Rec**
✓			✓	USB Play à SC Slave Port SC Slave Port à USB Rec and Ultranet Out	Depends on Config.*	Depends on Config.*
✓				SC Slave Port à Ultranet Out	16/0	

Use Case Examples The AUDIO IN/OUT button defines SC/USB bus

USB 1-16 = Ultranet In, USB 17-32 = SC

The DN4816U was designed to be used in three different applications:

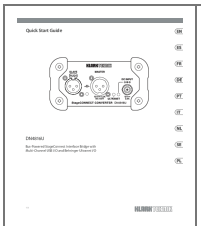
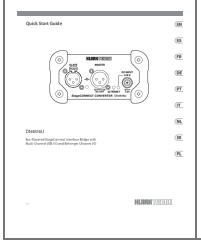
1. Ultranet to StageCONNECT (and vice versa)
2. USB to StageCONNECT (and vice versa)
3. USB to Ultranet (and vice versa)

Specifications

Important information

1. Register online. Please register your new Music Tribe equipment right after you purchase it by visiting musictribe.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. Malfunction. Should your Music Tribe Authorized Reseller not be located in your vicinity, you may contact the Music Tribe Authorized Fulfiller for your country listed under “Support” at musictribe. com. Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at musictribe. com. Alternatively, please submit an online warranty claim at musictribe.com BEFORE returning the product.
3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

Documents / Resources

	KLARK TEKNIK DN4816U Bus-Powered StageConnect Interface Bridge [pdf] User Guide DN4816U, Bus-Powered StageConnect Interface Bridge, Interface Bridge
	KLARK TEKNIK DN4816U Bus-Powered StageConnect Interface Bridge [pdf] User Guide DN4816U Bus-Powered StageConnect Interface Bridge, DN4816U, Bus-Powered StageConnect Interface Bridge, Powered StageConnect Interface Bridge, StageConnect Interface Bridge, Interface Bridge, Bridge

References

- Music Tribe
- Music Tribe
- Music Tribe
- Music Tribe
- Music Tribe

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