



KLARK TEKNIK DN32-USB USB 2.0 Expansion Module with up to 32 Bidirectional Channels User Guide

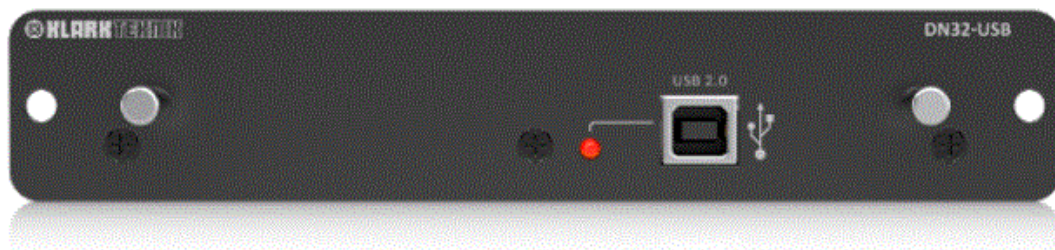
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KLARK TEKNIK DN32-USB USB 2.0 Expansion Module with up to 32 Bidirectional Channels



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

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 WEEE Directive (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.

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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.

Warning

Failure to observe the following warnings may lead to fatality or serious injury from fire or electric shock.

Before installing the card, you must refer to the owner's manual of the host device or to klarktechnik.com to verify that your host device supports this card, and to verify the number of cards that can be installed in combination with other Midas or third-party cards.

- Do not attempt to disassemble or modify the card. Do not apply excessive force to board connectors or other board components. Mishandling of board may lead to shock, fire hazard, or equipment failure.
- Disconnect the power cable from the main unit before installing this card to eliminate shock hazard.

Caution

Failure to observe the following precautions may lead to personal injury, or may result in damage to equipment or other property.

- Do not touch the board's metallic leads (pins) when handling the card. Pins are sharp and may cause injury.
- The card is electrostatic-sensitive.

Before handling the card, you should briefly touch the main unit's metal casing with your bare hand so as to drain off any static charge from your body. Music Tribe assumes no responsibility for data loss, equipment damage, or injury caused by inappropriate handling or usage.

DN32-USB Interface Operation Guide

1. Host system requirements for DN32-USB interface expansion card

Check klarktechnik.com for updates of DN32-USB firmware or system requirements. Please find the recommended hardware/software minimum configurations in the specifications section.

2. The Klark Teknik DN32-USB High-Performance 32-Channel 24-Bit USB Audio Interface

The DN32-USB option card provides Midas M32 consoles with 32 channel, bi-directional audio I/O and MIDI via USB 2.0 serial bus for Mac or Windows-based applications. The simultaneous 32-in, 32-out audio channels enable for extremely powerful studio and live applications. You can run virtual live sound checks or 32-track high-quality studio recordings, while at the same time remote operating your DAW via HUI/Mackie Control emulation. The high speed 24-bit signal transmission and ultra-low latency ASIO drivers and CoreAudio compatibility even allow inserting audio plugins on your PC to perform advanced outboard processing.

- Configuring the DN32-USB option card for use in the console

The console will automatically detect the DN32-USB option card during the regular boot cycle, and it will display the card's presence in several instances.

- The green square in front of "C: USB" indicates that the card is installed and working properly.

Installing a Klark Teknik Interface Card

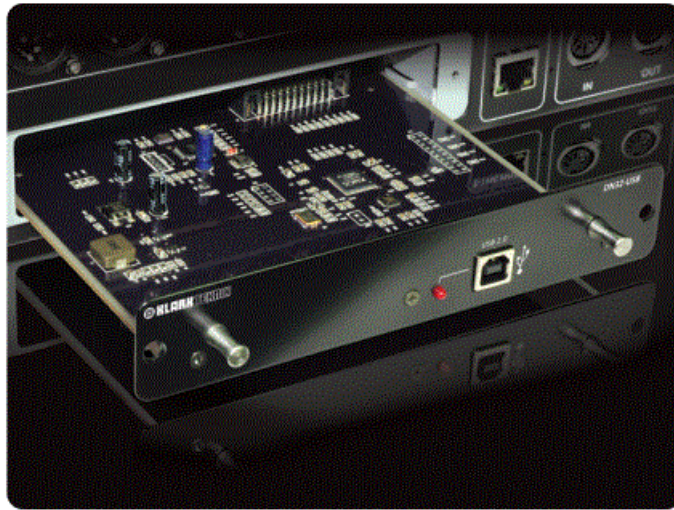


Before you install an I/O card to the expansion slot of the console, you must check the Klark Teknik website to verify whether the console supports that card.

CAUTION: Before installing optional I/O cards into the console, you must make sure that the console's power switch is turned off. Malfunctions or electrical shock may occur otherwise.

To install an interface I/O card:

1. Make sure that the mixer's power is turned off.
2. Loosen the screws that fasten the slot, then remove the slot cover and keep it in a safe place.
3. Before removing the DN32-USB card from its protective bag, it is recommended to touch the grounded metal chassis of the console to prevent electrostatic discharges affecting the sensitive electronic components. It is generally a good idea to hold the card either by the face plate or by the two small handles, but never touching the components on the circuit board directly.
4. Align both edges of the card with the guide rails inside the slot and carefully insert the card into the slot. Push the card all the way into the slot to ensure that the contacts of the card are correctly inserted into the connector inside.
5. Fasten the card using the included screws. Be aware that damage or malfunctions may occur if the card is not fastened.



Configuring the PC to Interface with the DN32-USB Option Card

Please watch klarktechnik.com for further advice on the software configuration of DN32-USB interface card.

- **Windows:**

There is an ASIO high-performance driver available for download, which is essential for low-latency audio on Windows-based applications.

- **Mac OS:**

The DN32-USB is CoreAudio compatible and thus works with low-latency on Mac computers without any additional driver installation.

ASIO Driver for Windows-based Applications

Download the ASIO driver installer files from klarktechnik.com. Double-click on Setup.exe in the corresponding unpacked folder and follow the instructions on the screen.

Driver Control Panels

Once the driver is installed, you can open the control panel by double-clicking on the small tray icon. These screens will allow configuring the DN32-USB expansion card in the M32 as an audio interface for your computer. Download the M32 full manual from midasconsoles.com for more information.

Specifications

Interface	MIDI	Audio input channels 2 4-Bit, 44.1/48 kHz	Audio output channels 24-Bit, 44.1/48 kHz
High Speed USB 2.0	1 in x 1 out	32, 16, 8 or 2	32, 16, 8 or 2
DAW remote control	Generic MIDI, HUI and Mackie Control Universal emulation		

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving
- Increase the separation between the equipment and
- Connect the equipment into an outlet on a circuit different from that to which the receiver is
- Consult the dealer or an experienced radio/TV technician for


This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.




Important information

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.

Documents / Resources

	<p>KLARK TEKNIK DN32-USB USB 2.0 Expansion Module with up to 32 Bidirectional Channels [pdf] User Guide</p> <p>DN32-USB, USB 2.0 Expansion Module with up to 32 Bidirectional Channels, USB 2.0 Expansion Module, Expansion Module</p>
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References

-  [Klark Teknik | Home](#)
-  [Midas | Home](#)
-  [Music Tribe](#)