

KLARK TEKnIK

**DN32-ADAT ADAT
Expansion Module with up
to 32 Record/Playback
Channels**



KLARK TEKnIK DN32-ADAT ADAT Expansion Module with up to 32 Record/Playback Channels User Guide

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KLARK TEKnIK

KLARK TEKnIK DN32-ADAT ADAT Expansion Module with up to 32 Record/Playback Channels



Safety Instruction

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 a dry cloth.
7. Do not block any ventilation openings. Install by 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. Use only attachments/accessories specified by the manufacturer.
10. 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.
11. 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.
12. Do not install in a confined space, such as a bookcase or similar unit.
13. Do not place naked flame sources, such as lighted candles, on the apparatus.

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 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 the board may lead to shock, fire hazards, or equipment failure.
- Disconnect the power cable from the main unit before installing this card to eliminate shock hazards.

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 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.

Introduction

The DN32-ADAT card is a multichannel audio interface expansion card for the Midas M32 series of digital mixers. It provides 32 channels of input and output via 8 Toslink connectors and word clock transmission via a coaxial connector. The interface is perfect for recording with standalone ADAT hard disk recorders and offers options for incorporating external processors with ADAT connectivity.

Installation

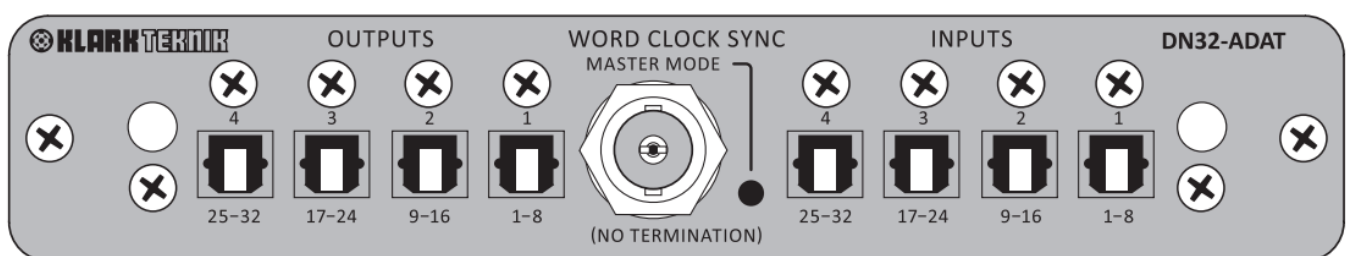
Before you install the DN32-ADAT card in the expansion slot of the M32 console, you must check klarktechnik.com to verify whether the console firmware supports that card.

Caution – before installing the DN32-ADAT card into the console, you must make sure that the console's power switch is turned off. Malfunctions or electrical shock may occur otherwise.

1. Make sure that the mixer's power is turned off.
2. Loosen the 2 screws left and right that fasten the slot, then remove the slot cover or currently installed card and keep it in a safe place.
3. Before removing the DN32-ADAT card from its protective bag, we recommend touching 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 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.



Connector Plate

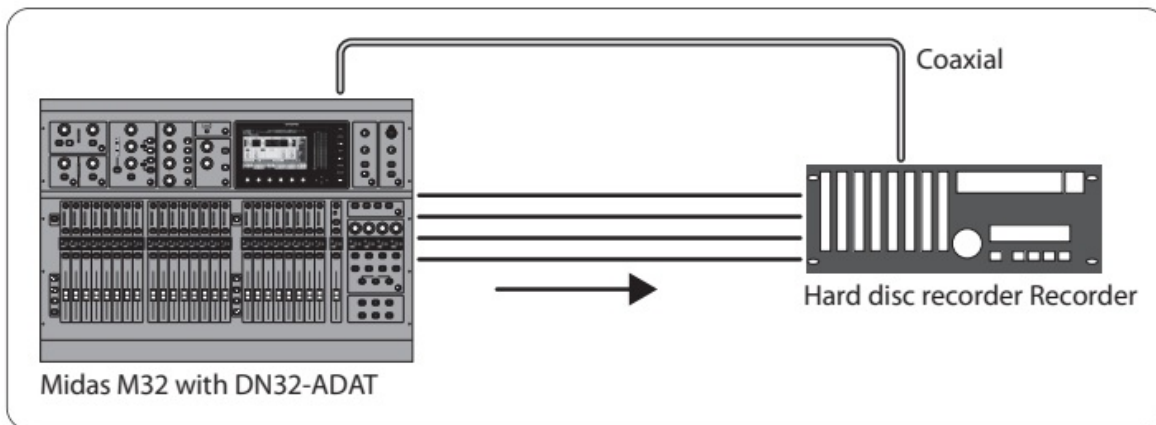


- Single BNC coaxial, in/output switchable, no internal termination, LED indicates WC output (Master mode)
- 4x Toslink inputs and 4x Toslink outputs,

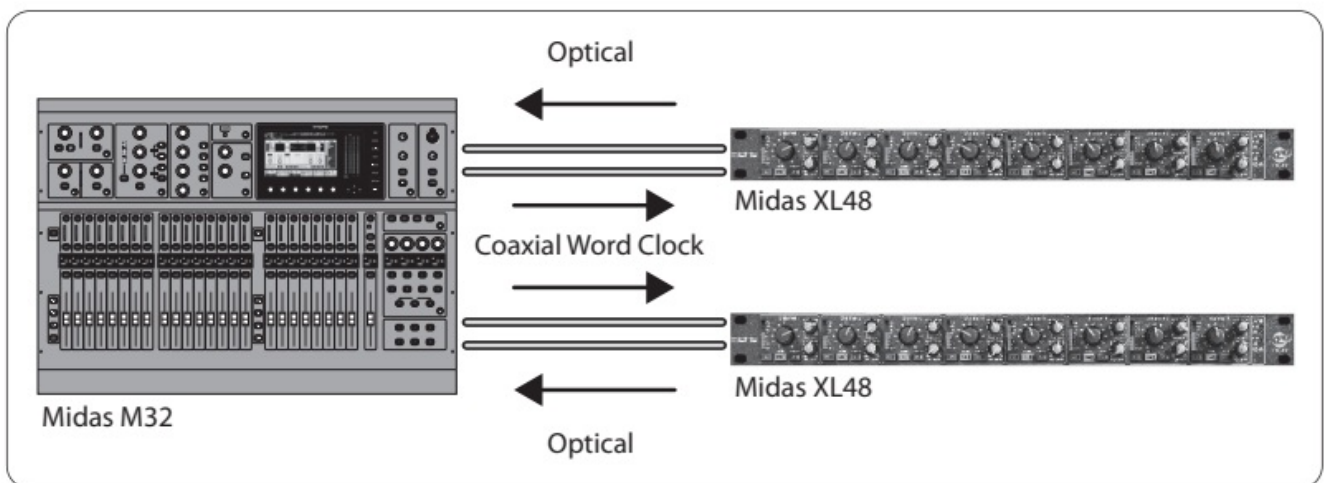
- channels per connector
- 2x small handles for removing the expansion card from the slot
- 2x M3x6 screws left and right for fastening the card in the slot
- 2x small counter sunk screws below the handles and
- screws above the connectors. Do not loosen these!

Connection Scenarios

DN32-ADAT external hard disc recorder (providing Word Clock via BNC coaxial connection)

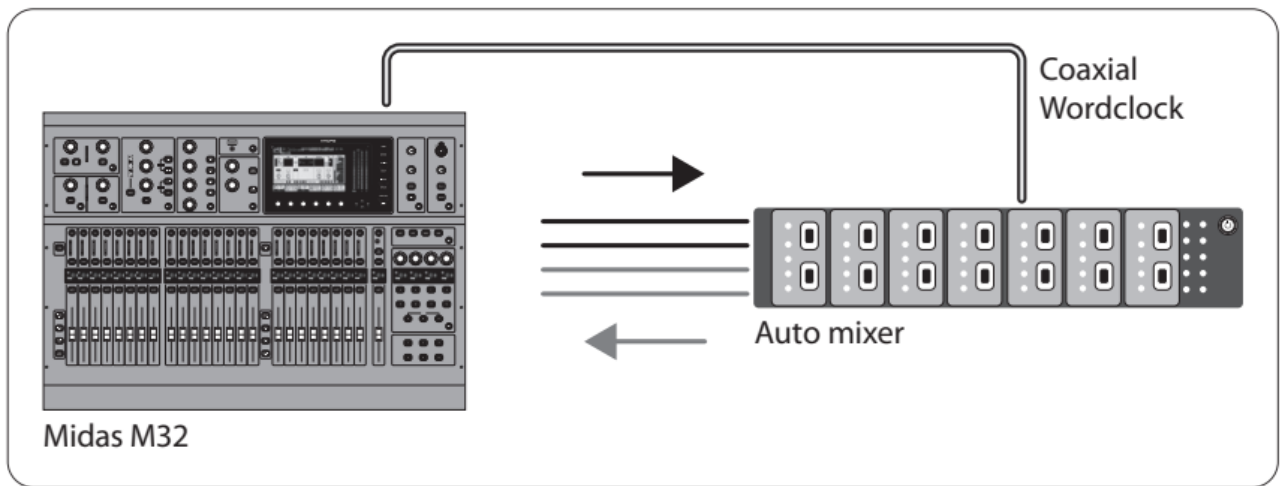


2x XL48 -> Midas M32



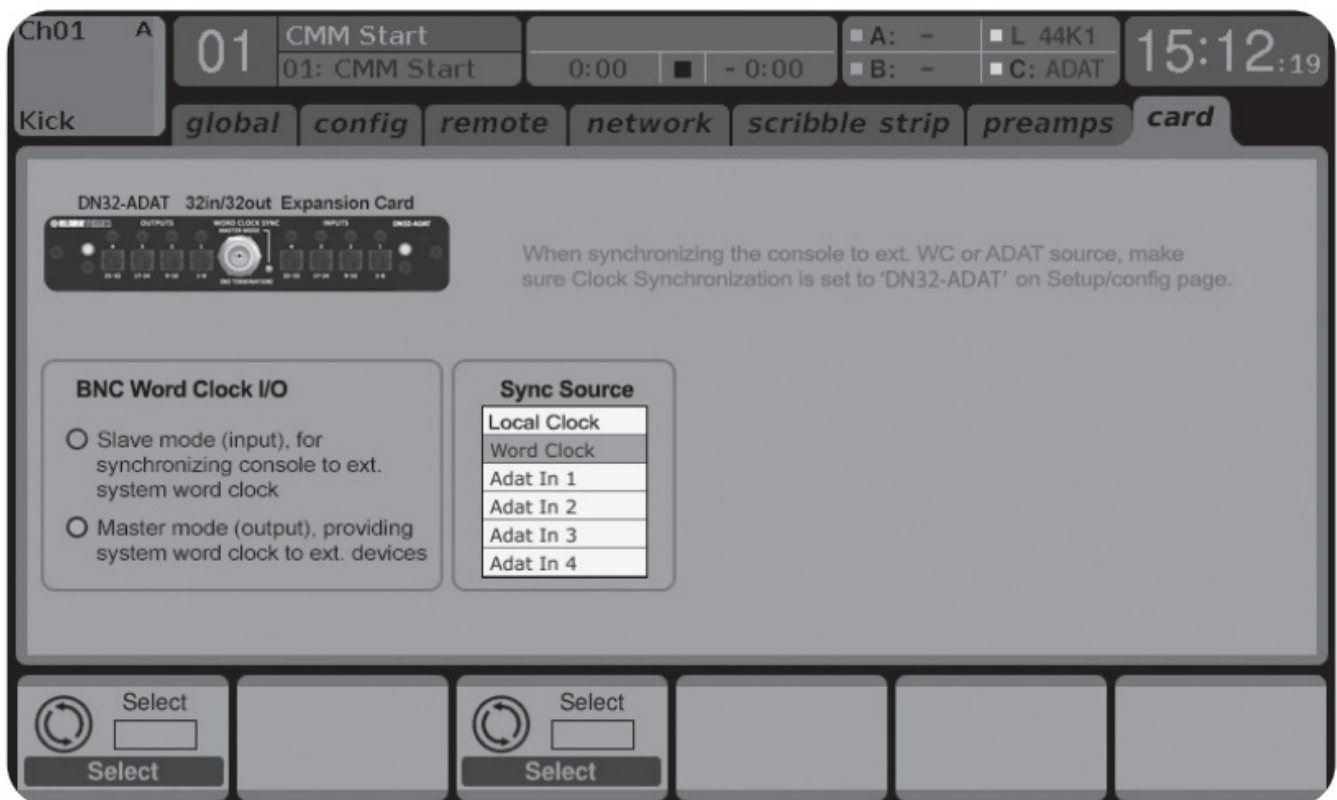
DN32-ADAT external auto mixer returns to DN32-ADAT

- Out 1-8 and 9-16 to Auto-mixing Processor inputs
- In 1-8 and 9-16 from Auto-mixing Processor outputs
- Routing/home > Input 1-16 = Card In 1-16,
- Routing/card out > Output 1-16 = Local 1-16



Note, that this would also apply to any other sort of specialized outboard processing that features ADAT I/O. It can be used for all 32 x 32 channels simultaneously, even spread over several external processors.

Mixer Setup



Word clock I/O selector

- either word clock slave (input), allowing the console to sync to external WC devices or
- word clock master (output), providing a system word clock to other devices

DN32-ADAT card can be selected as the clock source on the M32 Setup/config page. In this case, the mixer will slave to the ADAT clock received on BNC input or fiber optic Toslink inputs. Note that this may require the console to be rebooted if the internal and external clock rates are different (i.e. 44.1/48 kHz). Word clock selection box for choosing the external clock synchronization source:

- fiber optic inputs 1-4 or
- coaxial BNC WC input
- local clock indicates the console's internal clock.

Specifications

Connectors	
TOSLINK opt. IN	4
TOSLINK opt. OUT	4
WORDCLOCK BNC IN/OUT	1
Input/Output Characteristics	
Sample rates	44.1 kHz / 48 kHz
Sample word length	24 Bit
Clock synchronisation selectable	internal/Local WordClock In ADAT In 1 ADAT In 2 ADAT In 3 ADAT In 4
Round-trip latency	<0.5 ms
Indicator	
Master Mode (on=Clock Out, off=Clock In)	1 LED, amber

FEDERAL COMMUNICATIONS

COMMISSION COMPLIANCE INFORMATION

Klark Teknik
DN32-ADAT

Responsible Party Name: Music Tribe Commercial NV Inc.

Address: 122 E. 42nd St.1,

8th Floor NY, NY 10168,

United States

Email Address: legal@musictribe.com

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, under 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 by 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 antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

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

- (1) this device may not cause harmful interference, and
- (2) 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.

Hereby, Music Tribe declares that this product complies with Directive 2014/30/EU, Directive 2011/65/EU, and Amendment 2015/863/EU

Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>


EU Representative: Music Tribe Brands DK A/S

Address: Gammel Strand 44, DK-1202 København K, Denmark



UK Representative: Music Tribe Brands UK Ltd.

Address: 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom

Documents / Resources

	<p>KLARK TEKnIK DN32-ADAT ADAT Expansion Module with up to 32 Record/Playback Channels [pdf] User Guide</p> <p>DN32-ADAT ADAT Expansion Module with up to 32 Record Playback Channels, DN32-ADAT A DAT, Expansion Module with up to 32 Record Playback, Channels, with up to 32 Record Playback Channels, Record Playback Channels, Playback Channels, Channels</p>
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References

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-  [Music Tribe](#)
- [User Manual](#)

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