

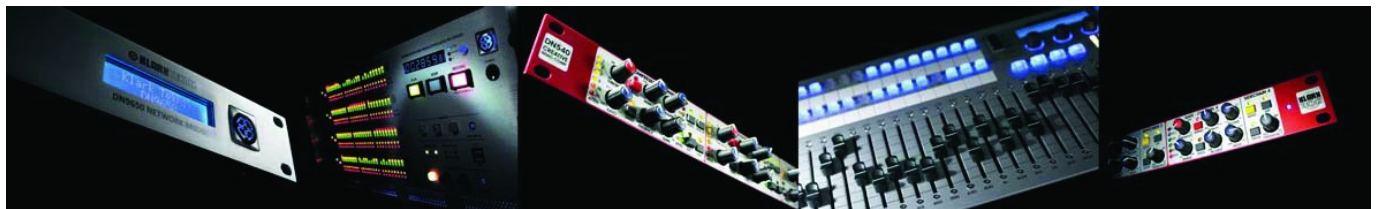


KLARK TEKNIK KT-AES50 AES50 Network Module with up to 48 Bidirectional Channels User Guide

[Home](#) » [Klark Teknik](#) » KLARK TEKNIK KT-AES50 AES50 Network Module with up to 48 Bidirectional Channels User Guide 



KT-AES50 AES50 Network Module with up to 48 Bidirectional Channels Quick Start Guide





Contents

- [1 Important Safety Instructions](#)
- [2 LEGAL DISCLAIMER](#)
- [3 LIMITED WARRANTY](#)
- [4 Introduction](#)
- [5 Installation](#)
- [6 Connector Plate](#)
- [7 Specifications](#)
- [8 Important information](#)
- [9 Documents / Resources](#)
 - [9.1 References](#)
- [10 Related Posts](#)

Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality commercially-available speaker cables with 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 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.

LEGAL DISCLAIMER

MUSIC Group 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.

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at music-group.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 Group assumes no

responsibility for data loss, equipment damage, or injury caused by inappropriate handling or usage.

Introduction

The KT-AES50 card is a multichannel audio interface expansion card for the KlarkTeknik DN9650/DN9652 Network Bridge that allows up to 48 channels of AES50 format audio to be converted to a different protocol or sample rate. This sample-rate conversion therefore allows AES50 networks operating at 96 kHz to connect to AES50 networks operating at 48 kHz. This expansion card provides 48 channels of AES50 digital audio operating at either 48 kHz or 96 kHz on two connectors.

Installation

Before you install the KT-AES50 card in the network module slot of the DN9650/DN9652 Network Bridge, you must check klarktechnik.com to verify that the unit's host firmware supports this card. We recommend that you periodically check your unit's product page for firmware updates. Caution – before installing the KT-AES50 into the DN9650/DN9652 Network Bridge, you must make sure that the unit's power switch is turned off . Malfunctions or electrical shock may occur otherwise.

To install an interface I/O card: DN9650/DN9652

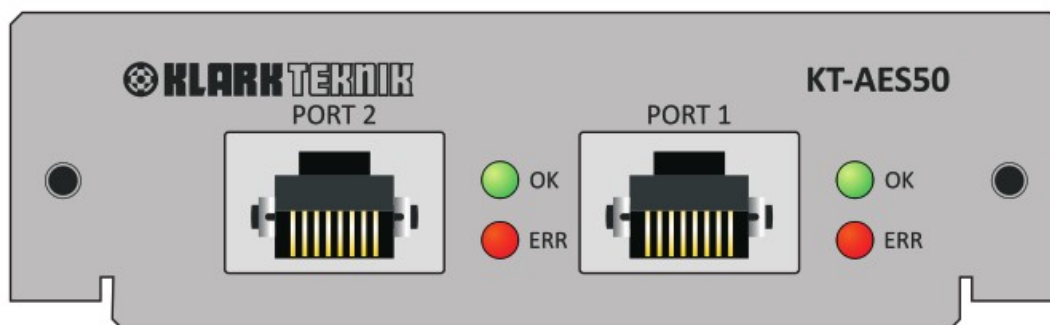
1. Make sure that the host unit's power is turned off .
2. Loosen the 19 screws fastening the chassis cover, then remove the chassis cover from the main chassis. Keep the cover and the screws in a safe place.
3. Before removing the KT-AES50 card from its protective bag, we recommend touching the grounded 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. Identify the Network Module connectors (two male 40 pin vertical connectors). Align the KT-AES50 female connectors with the DN9650 connectors and apply vertical pressure being very careful not to bend the pins. Push the card all the way into the slot to ensure that the contacts of the card are correctly inserted.
5. Fasten the card using the included screws (2 in the faceplate and 2 to the rear of the PCB). Be aware that damage or malfunctions may occur if the card is not fastened.
6. Replace the chassis cover and replace all screw before the unit is powered on.



Requirements

DN9650/DN9652 Network Bridge.

Connector Plate



- Dual RJ45 bidirectional ports
- In 48 kHz mode, the two ports act as a dual-redundant connection.
 - Each port transmits channels 1-48
- In 96 kHz mode, each port carries 24 channels:
 - Port 1: channels 1-24
 - Port 2: Channels 25-48
- Port indicator LEDs
 - Green indicates proper functioning
 - Red indicates an error with the port connection

Specifications

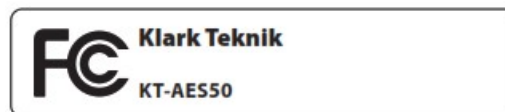
Connectors	
RJ45	2
Input/Output Characteristics	
Channels of input/output @ 48 kHz	48, both ports (dual redundant)
Channels of input/output @ 96 kHz	1-24, port 1 (independent) 25-48, port 2 (independent)
Sample rates	48 kHz / 96 kHz
Sample word length	24 Bit
Clock synchronisation selectable	host unit, external (AES50)
Latency	min. 70 μ s (AES50), additional 1 ms with SRC
Cable Length	
Ethernet cat 5e	100 m

Other important information

Important information

1. Register online. Please register your new MUSIC Group equipment right after you purchase it by visiting klarktechnik.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 Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under "Support" at klarktechnik.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 klarktechnik.com. Alternatively, please submit an online warranty claim at klarktechnik.com BEFORE returning the product.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: MUSIC Group Research UK Limited

Address: Klark Industrial Park, Walter Nash Road, Kidderminster. Worcestershire. DY11 7HJ. England.

Phone Number: +44 1562 741515

KT-AES50

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Important information:

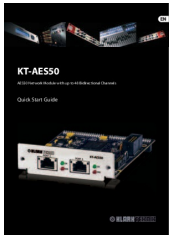
Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

klarktechnik.com



<https://manual-hub.com/>

Documents / Resources



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KT-AES50 AES50 Network Module with up to 48 Bidirectional Channels, KT-AES50, AES50 Network Module with up to 48 Bidirectional Channels, Network Module with up to 48 Bidirectional Channels, Module with up to 48 Bidirectional Channels, 48 Bidirectional Channels, Bidirectional Channels

References

-  [Klark Teknik | Home](#)
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