


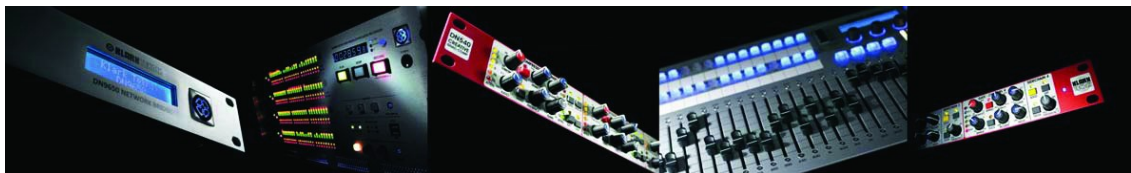


KLARK TEKNIK KT-USB USB 2.0 Network Module with up to 48 Bidirectional Channels User Guide

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KT-USB
USB 2.0 Network Module with up to 48 Bidirectional Channels
Quick Start Guide



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Important Safety Instructions



CAUTION

**RISK OF ELECTRIC SHOCK!
DO NOT OPEN!**



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.

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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 Klark Teknik KT-USB is a USB audio interface card that adds PC-based recording and playback capability to your digital audio network. With the KT-USB installed, you can effortlessly multitrack and play back up to 24/48 channels of high-quality 24-Bit, 96/48 kHz audio directly to your Mac* or Windows* computer, perform "virtual sound checks", and loop-back audio through your DAW software. Currently the card can be used with the DN9650/DN9652.

Installation

Before you install the KT-USB card in the expansion slot of your DN9650/52, you must check klarkteknik.com to verify whether the unit's firmware supports that card. We recommend that you periodically check the DN9650/52's product page for firmware updates.

CAUTION: before installing the KT-USB card into the DN9650/52, you must make sure that the DN9650/52'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-USB 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-USB 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.

Driver Installation (Windows)

1. With the KT-USB installed the DN9650 and the unit fully reassembled, power on the DN9650.
2. Connect a USB cable between the PC and the USB card.
3. Run KT-USB_setup.exe.

Now the USB card is ready for use, the card will appear as a soundcard under windows control panel and will be selectable for audio input/output in any windows DAW software.



*Mac is a trademark of Apple Inc. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

Requirements

Minimum Hardware:	
Windows-based application	<ul style="list-style-type: none"> – Core 2 Duo CPU, 2 GHz – Ethernet port – 1 GB RAM
Mac	<ul style="list-style-type: none"> – 1.5 GHz CPU – Ethernet port – 512 MB RAM
Recommended Operating Systems:	
Windows:	<ul style="list-style-type: none"> – Windows 7, 32-bit or 64-bit – Windows 8, 32-bit or 64-bit
Mac:	<ul style="list-style-type: none"> – 10.6.8 OS X* Snow Leopard – 10.7.5 OS X Lion – 10.8 OS X Mountain Lion

*OS X is a trademark of Apple Inc.

Connector Plate



- Single USB 2.0, Type B port
 - In 48 kHz mode, the port transmits 48 bidirectional channels
 - In 96 kHz mode, the port transmits 24 bidirectional channels
- Port indicator LEDs
 - LEDs light to indicate 48 kHz or 96 kHz sampling rate is active

Specifications

Connectors

USB	1 x USB 2.0, type B
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Input/Output Characteristics

Channels of input/output @ 48kHz	48, bidirectional
Channels of input/output @ 96kHz	24, bidirectional
Sample rates	48 kHz / 96 kHz
Sample word length	24 bit
Clock synchronization selectable	DN9650 unit
Latency	Platform / implementation dependent

Cable Length

USB 2.0, twisted pair, shielded	2-5 m
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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



Klark Teknik
KT-USB

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-USB

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.



Documents / Resources



[KLARK TEKNIK KT-USB USB 2.0 Network Module with up to 48 Bidirectional Channels](#) [pdf] User Guide

KT-USB USB 2.0 Network Module with up to 48 Bidirectional Channels, KT-USB, USB 2.0 Network Module with up to 48 Bidirectional Channels, Network Module with up to 48 Bidirectional Channels, Bidirectional Channels, Channels

References

-  [Klark Teknik | Home](#)
-  [Manual-Hub.com – Free PDF manuals!](#)
- [User Manual](#)

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