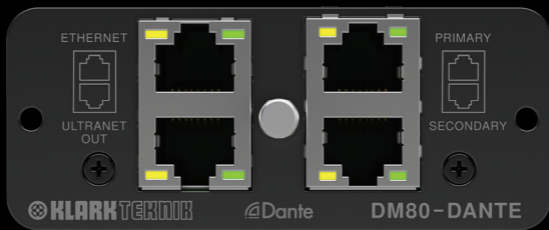


DM80-DANTE

Dante Expansion Module with 16 x 32 Channels,
Additional ULTRANET Audio Networking and
Ethernet Connectivity

Quick Start Guide



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EN Important Safety Instructions

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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 klarkteknik.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.

1. Introduction

The DM80-DANTE card is a multichannel audio interface expansion card for the KLARK TEKNIK DM8000 Digital Audio Processor that allows DM8000 to connect to external devices that use Dante, a high-performance digital media protocol designed to deliver audio over a standard Ethernet IP network. This Dante connection shares 32 x 32 channels of audio with any network of Dante-enabled devices via single or redundant Ethernet connection. Using existing network infrastructure at 100 Mbit/s or 1 Gbit/s, the Dante protocol offers very stable, low-latency transmission for a variety of professional applications unifying multichannel audio distribution across multiple locations or device families.

2. Installation

Before you install the DM80-DANTE card in the network module slot of the DM8000 Digital Audio Processor, 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.

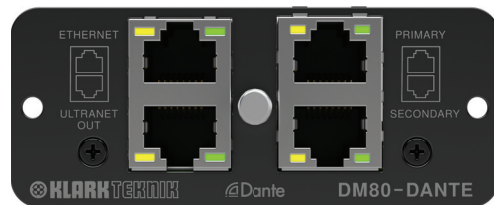
CAUTION: before installing the DM80-DANTE into the DM8000 Digital Audio Processor, you must make sure that the main unit's power switch is turned off. Malfunctions or electrical shock may occur otherwise.

To install an interface I/O card:

DM8000

1. Make sure that the host unit's power is turned off.
2. Loosen the screws fastening the expansion slot cover, and then remove the expansion slot cover from the main chassis. Keep the cover and the screws in a safe place.
3. Before removing the DM80-DANTE card from its protective bag, we recommend touching the grounded metal chassis of the host unit to prevent electrostatic discharge from affecting the sensitive electronic components on the expansion card. We recommend that you 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 expansion card connectors (two male 40 pin vertical connectors). Align the DM80-DANTE female connectors with the DM8000 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.



DM80-DANTE Connector Plate

EN Specifications

Connectors

Dante (primary and secondary)	2 x RJ45
ULTRANET	1 x RJ45
Ethernet (configuration and control)	1 x RJ45

Dante Input/Output Characteristics

Number of channels	16 input / 16 output
Sample rate	48 kHz
Resolution	24-bit
Latency	< X.X ms (Dante clock) < X.X ms (DM8000 internal clock)
Clock synchronization	Incoming Dante clock or DM8000 internal clock

ULTRANET Digital Network

Number of channels	16 input / 16 output
Sample rates	48 kHz
Resolution	24-bit
Latency	< 0.9 ms
Cable	Shielded CAT-5
Cable length	up to 75 m / 250 ft.

Other important information

EN 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.

ES Aspectos importantes

1. Registro online. Le recomendamos que registre su nuevo aparato MUSIC Group justo después de su compra accediendo a la página web klarktechnik.com. El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

2. Averías. En el caso de que no exista un distribuidor MUSIC Group en las inmediaciones, puede ponerse en contacto con el distribuidor MUSIC Group de su país, que encontrará dentro del apartado "Support" de nuestra página web klarktechnik.com. En caso de que su país no aparezca en ese listado, acceda a la sección "Online Support" (que también encontrará dentro del apartado "Support" de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en periodo de garantía ANTES de devolvernos el aparato.

FR Informations importantes

1. Enregistrez-vous en ligne. Prenez le temps d'enregistrer votre produit MUSIC Group aussi vite que possible sur le site Internet klarktechnik.com. Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

2. Dysfonctionnement. Si vous n'avez pas de revendeur MUSIC Group près de chez vous, contactez le distributeur MUSIC Group de votre pays : consultez la liste des distributeurs de votre pays dans la page "Support" de notre site Internet klarktechnik.com. Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre "aide en ligne" que vous trouverez également dans la section "Support" du site klarktechnik.com. Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site klarktechnik.com AVANT de nous renvoyer le produit.

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DE Weitere wichtige Informationen**1. Online registrieren.**

Bitte registrieren Sie Ihr neues MUSIC Group-Gerät direkt nach dem Kauf auf der Website klarktechnik.com. Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

2. Funktionsfehler.

Sollte sich kein MUSIC Group Händler in Ihrer Nähe befinden, können Sie den MUSIC Group Vertrieb Ihres Landes kontaktieren, der auf klarktechnik.com unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf klarktechnik.com unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf klarktechnik.com ein, BEVOR Sie das Produkt zurücksenden.

PT Outras Informações Importantes**1. Registre-se online.**

Por favor, registre seu novo equipamento MUSIC Group logo após a compra visitando o site klarktechnik.com. Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

2. Funcionamento Defeituoso.

Caso seu fornecedor MUSIC Group não esteja localizado nas proximidades, você pode contatar um distribuidor MUSIC Group para o seu país listado abaixo de “Suporte” em klarktechnik.com. Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso “Suporte Online” que também pode ser achado abaixo de “Suporte” em klarktechnik.com. Alternativamente, favor enviar uma solicitação de garantia online em klarktechnik.com ANTES da devolução do produto.

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**

DM80-DANTE

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.

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.



This product conforms with essential requirements of the EMC Directive 2014/30/EU, the LV Directive 2014/35/EU, RoHS Directive 2011/65/EU and WEEE Directive - 2012/19/EU. Warning: Operation of this equipment in a residential environment could cause radio interference.

