

# KT-DANTE64

Audinate Dante Network Module with up to 64 Bidirectional Channels



- ⊗ Audinate Dante\* network module for KLARK TEKNIK DN9650 and DN9652 network bridges and MIDAS NEUTRON-NB expansion module
- ⊗ Compatible with KLARK TEKNIK DN9650 and DN9652 network bridges and MIDAS NEUTRON-NB expansion module
- ⊗ Enables multichannel recording and playback through Dante Virtual Soundcard (PC or Mac\* computer)
- ⊗ Primary and secondary Ethernet interfaces for dual-redundant Dante networking
- ⊗ Operates from internal Dante network Precision Time Protocol (PTP) clock or external clock via host unit
- ⊗ Optional Dante Controller software for remote configuration (PC or Mac computer)
- ⊗ LED indicators monitor network activity and speed
- ⊗ 3-Year Warranty Program\*
- ⊗ Designed and engineered in England

The KT-DANTE64 network module provides Audinate Dante compatibility for the **KLARK TEKNIK DN9650** and **DN9652** Network Bridges, and features up to 64 or 32 bidirectional channels at 48 kHz or 96 kHz respectively. KT-DANTE64 offers high performance direct-to-computer audio recording, flexible routing and true Plug and Play technology with low latency, low jitter and sub-microsecond synchronisation. Dante is Internet Protocol (IP) compliant which allows operation over conventional Ethernet networks running on off-the-shelf computer networking hardware, and does not require dedicated network infrastructure.



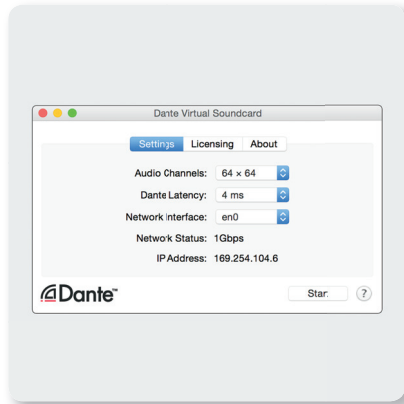
Dante's Zero configuration protocol allows Dante-enabled devices to identify and configure themselves automatically when connected to a network. Dante-enabled devices discover one another over the network and learn each other's capabilities, including the number of input and output channels, sample rates and bit depths supported. A Dante-enabled device connected to a network will also automatically setup its own network configuration.

KT-DANTE64 is electrically and mechanically compatible with the industry standard Cirrus CM-1 format.

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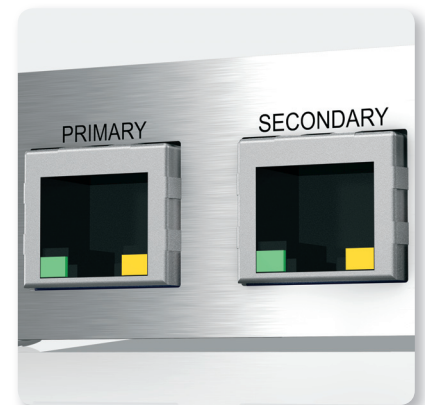
## Dante Virtual Soundcard

Dante Virtual Soundcard allows the direct connection of a computer for recording, processing and playback using any audio application and any combination of Dante-enabled devices. Dante Virtual Soundcard uses a standard Ethernet port, so no additional audio interface hardware is required. Dante Virtual Soundcard enables audio routing to different destinations and devices for up to 64 channels of uncompressed bidirectional audio. Dante Virtual Soundcard is ideally suited for virtual soundchecks, and live playback and recording applications.

Dante Virtual Soundcard is available for Windows and Mac OS X and licenses can be purchased directly from the Audinate web site.

## Dual-redundant Interfaces

KT-DANTE64 features both Primary and Secondary interfaces for operation in dual redundant Dante networks. LED indicators are provided to indicate network activity and speed.



## Precision Time Protocol

A network of Dante devices uses the IEEE-1588 Precision Time Protocol (PTP) to synchronise their local clocks. A Dante device can be either a PTP Master clock or a PTP Slave clock. At least one device on a Dante network needs to operate as a PTP Master clock. Each Dante hardware device can derive its clock from either its high-quality onboard clock circuit, or an externally connected word clock. In the case of Dante Virtual Soundcard, the computer's clock will be used. A Dante device with 'Slave to External Word Clock' in Dante Controller set will become the PTP Master Clock, unless there is another Dante device present with "Preferred Master" set.

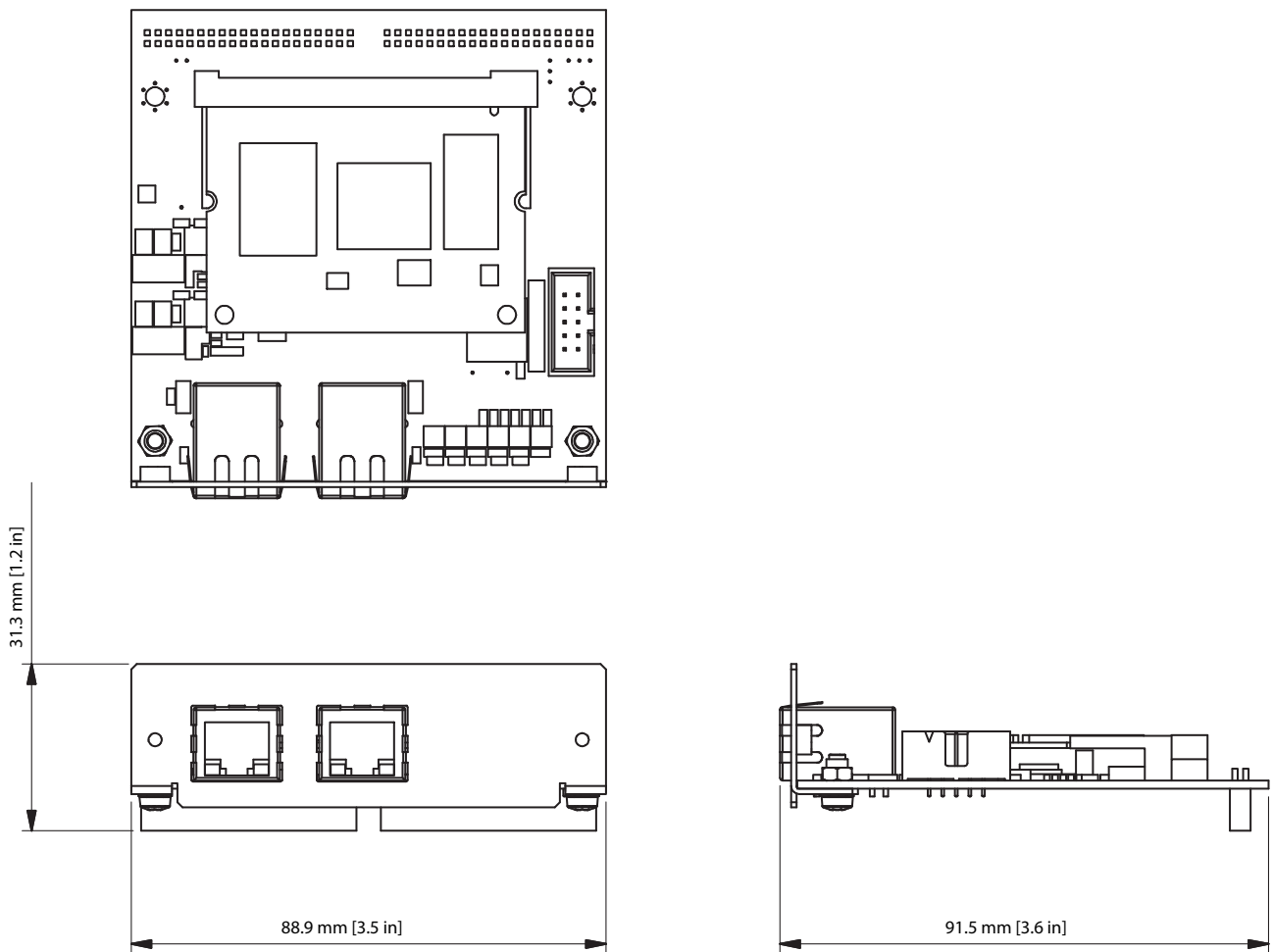
The KT-DANTE64 network module supports 'Slave to External Word Clock' and can synchronise to one of the available external clock sources in either the DN9650 or DN9652 host unit.



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## Dimensions



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## Technical Specifications

### System

Module format	Cirrus CM-1 compatible
Sample rates	44.1/48/88.2/96 kHz
Audio channels (44.1/48kHz)	Up to 64 bidirectional channels
Audio channels (88.2/96kHz)	Up to 32 bidirectional channels
Sample Bit Depth	16, 24 or 32 bits per sample
Audio Buffering	Up to 2000 samples per channel
Clock Source	Onboard word clock or external word clock
Interfaces	Primary and Secondary Dante network interfaces

### Dimensions

Height	31 mm (1.2")
Width	110 mm (4.3")
Depth	89 mm (3.5")

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## Architecture & Engineering Specifications

The network module shall conform to the electrical and mechanical specifications of the Cirrus CM-1 format to provide the third party network module interface.

The network module shall provide an interface to Audinate Dante networks and conform to the Dante protocol as specified by Audinate Pty Ltd.

The network module shall include both Primary and Secondary network ports for use in dual redundant Dante networks.

The network module shall include LED indicators for the Primary and Secondary network ports to display network activity and speed

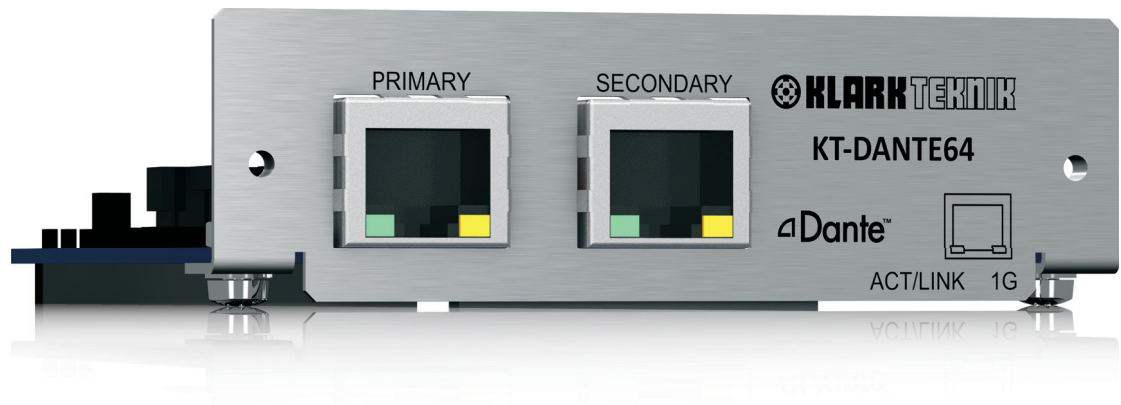
The network module shall have provision to select its clock source either from the onboard clock circuit or from an externally connected word clock via the CM-1 interface.

The network module shall be 110 mm wide x 89 mm deep x 31 mm high (4.3" x 3.5" x 1.2"). The network module shall be installed in either a [KLARK TEKNIK DN9650 Network Bridge](#) or [DN9652 Dual Network Bridge](#).

The network module shall be the [KLARK TEKNIK KT-DANTE64](#) and no other alternative shall be acceptable.

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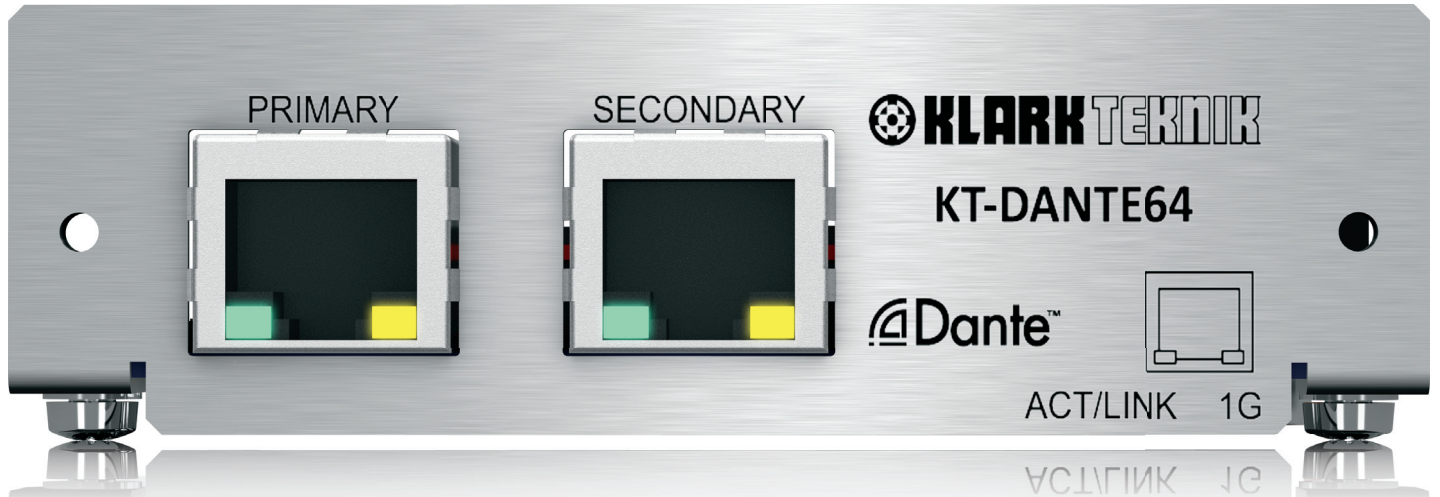
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