

## Network Modules

# KT-AES50

AES50 Network Module with up to 48 Bidirectional Channels



- Dual port AES50 network module with up to 48 bidirectional channels @ 48 kHz and 96 kHz
- Compatible with KLARK TEKNIK DN9650 and DN9652 network bridges and MIDAS NEUTRON-NB expansion module
- 48 channel dual redundant operation @ 48 kHz
- Independent 24 channel operation on each port @ 96 kHz
- Operates from incoming AES50 clock or external clock via host unit
- LED indicators display AES50 connection status
- 10-Year Warranty Program\*
- Designed and engineered in the U.K.

The KT-AES50 network module provides a dual port AES50 digital audio interface, compatible with both the **KLARK TEKNIK DN9650** and **DN9652** Network Bridges and the **MIDAS NEUTRON-NB** Dual Network Bridge Expansion Module for the industry-leading NEUTRON High Performance Audio System Engine.



Featuring up to 48 bidirectional channels at both 48 kHz or 96 kHz sample rates, with dual port redundancy in 48 kHz systems, KT-AES50 enables the interconnection of two AES50 networks operating at 96 kHz and 48 kHz respectively, as well as providing expanded AES50 channel counts in either 48 kHz or 96 Hz AES50 networks.

KT-AES50 is designed for simplicity of use, and can operate from the incoming AES50 clock or an external clock via host unit. Panel-mounted LED indicators show the connection status for both AES50 ports.

KT-AES50 is electrically and mechanically compatible with the industry standard Cirrus CM-1 format.

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## Digital Audio Networking

SuperMAC (AES50-Compliant) digital audio networking technology from **KLARK TEKNIK** simultaneously provides high channel counts, ultra low and deterministic latencies, sample-synchronous and phase-aligned networked clock distribution, error detection and correction, network redundancy, and ease of deployment and use – to meet the demanding requirements of live concert touring.

KT-AES50 is compatible with all **MIDAS** digital consoles, audio system engines, digital I/O units, as well as with any other AES50-equipped devices.

## Flexible Connectivity

The two AES50 ports provide dual redundant connections for 48 bidirectional channels in 48 kHz systems, whilst at 96 kHz sample rate the two ports may be operated independently for a combined total of 48 bidirectional channels. This allows the KT-AES50 module to be clocked from one of the AES50 ports, and the incoming clock is then distributed to the second AES50 port and the host unit via its CM-1 interface.



## You Are Covered

We always strive to provide the best possible Customer Experience. Our products are made in our own **MUSIC Tribe** factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world. As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous [Warranty program](#).

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## Technical Specifications

Module format	Cirrus CM-1 compatible
Sample rates	48 kHz, 96 kHz
Bit depth (Resolution)	24-Bit
Audio channels (48 kHz)	Up to 48 bidirectional channels (Dual redundant port operation)
Audio channels (96 kHz)	Up to 48 bidirectional channels (Independent port operation)
Clock source	Incoming AES50 clock, host unit via CM-1 interface

### AES50 Interface

Connector type	RJ-45
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### Dimensions

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

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## Architecture and 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 a dual port AES50 interface on RJ-45 connectors conforming to the Audio Engineering Society AES50-2011 standard.

The network module shall provide up to 48 bidirectional channels @ 48 kHz with dual redundant port operation.

The network module shall provide up to 48 bidirectional channels @ 96 kHz with independent port operation.

The network module shall have provision to select its clock source via the incoming AES50 clock or the host unit CM-1 interface.

The network module shall provide LED indication of AES50 connection status of both AES50 ports.

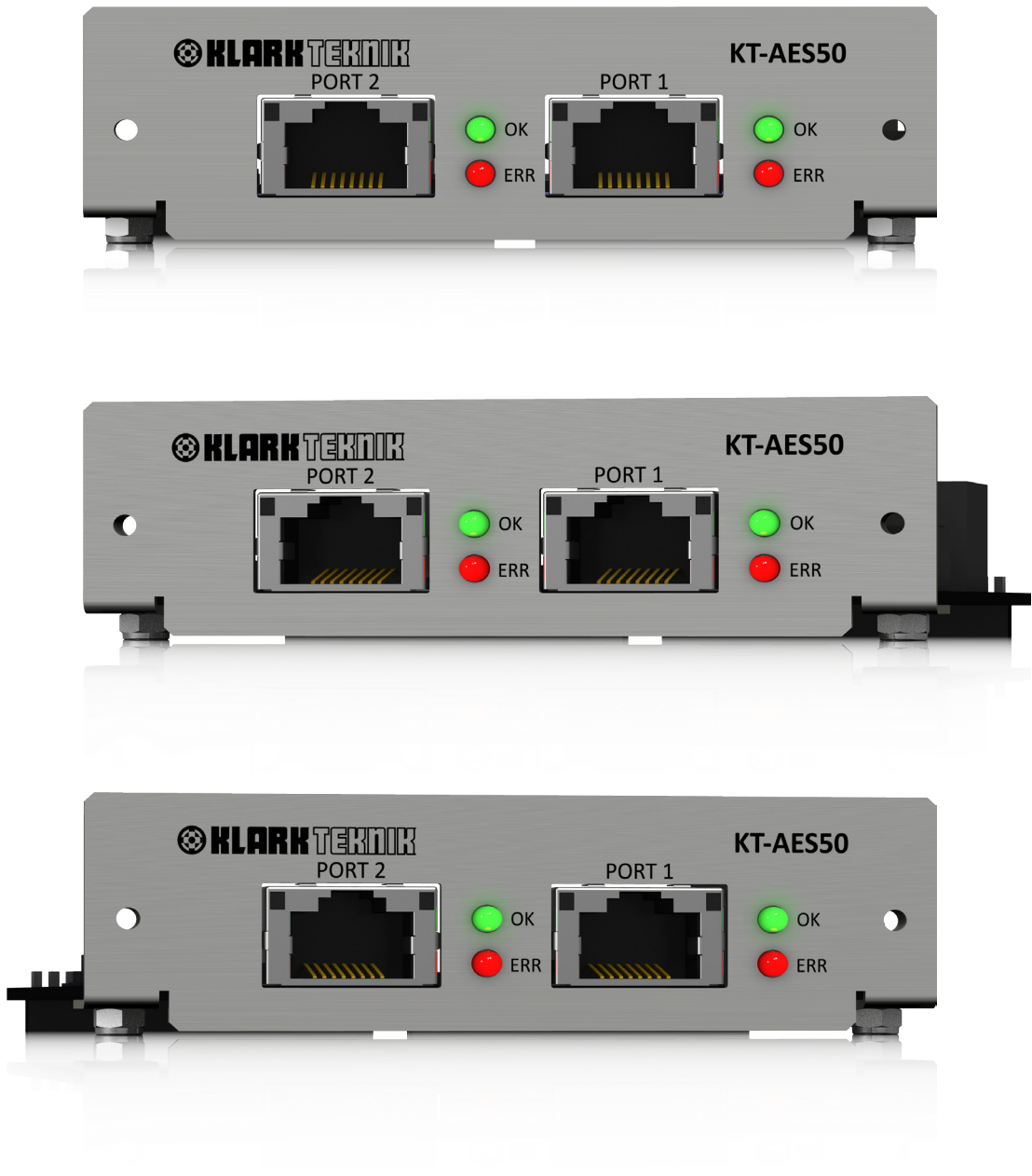
The network module shall be 110 mm wide x 89 mm deep x 31 mm high (4.3" x 3.5" x 1.2").

The network module shall be compatible with the [KLARK TEKNIK DN9650](#) Network Bridge, [KLARK TEKNIK DN9652](#) Dual Network Bridge and [MIDAS NEUTRON-NB](#) Dual Network Bridge Expansion Module.

The network module shall be the [KLARK TEKNIK KT-AES50](#) and no other alternative shall be acceptable.

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