

# DN9630

AES50 to USB 2.0 Converter with up to 48 Bidirectional Channels



- AES50 to USB 2.0 converter for simultaneous computer audio recording and playback
- Up to 48 bidirectional channels @ 48 kHz and 24 bidirectional channels @ 96 kHz
- Ethernet control port provides interface to AES50 auxiliary data channel
- Switchable 48 kHz and 96 kHz sample rate operation
- Operates from incoming AES50 clock
- Powered via USB 2.0 interface
- Native Core Audio\* driver support in Mac OS X\*, software drivers available for Windows\* PC
- LED indicators monitor network activity and speed
- Compact and rugged design with durable aluminium extrusion casing
- 3-Year Warranty Program\*
- Designed and engineered in the U.K.

The DN9630 greatly simplifies the connection of computers to AES50 audio networks to provide simultaneous multi-channel computer audio recording and playback, making it ideal for use with MIDAS digital consoles and other AES50 equipped products. The single USB 2.0 interface connects directly to a Windows\* PC or Apple\* Mac and features a very high channel count, offering up to 48 bidirectional channels at 48 kHz and 24 bidirectional channels at 96 kHz sample rates.



## Digital Audio Networking

Our SuperMAC (AES50-Compliant) digital audio networking technology 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. The DN9630 is fully compatible with all MIDAS digital consoles, audio system engines, digital I/O units, as well as all other AES50-equipped devices.

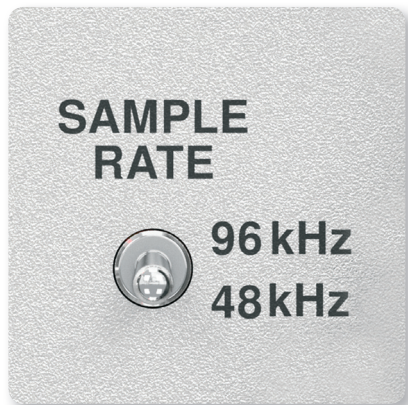
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## Ethernet Control Data Port

DN9630 provides a separate RJ-45 port which serves as an external interface for the bidirectional AES50 auxiliary data channel. This dedicated and user-transparent 5 Mbit/s fixed bandwidth data link allows remote control and metering of connected AES50 devices via standard Ethernet communication – without impacting the performance of the multi-channel AES50 audio connection.

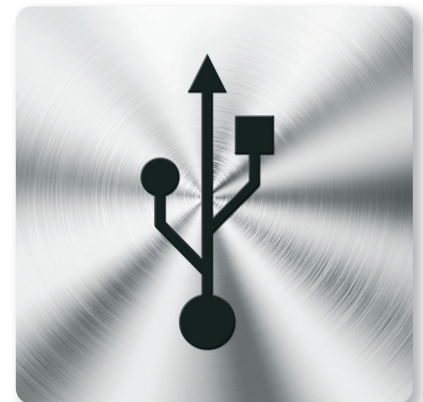


## Dual Sample Rate Support

A dedicated slide switch is provided for either 48 or 96 kHz sample rates, allowing the DN9630 to work with either AES50 network's incoming source clock for flawless synchronization.

## Bus Powered

Operating power for the DN9630 is provided by the host computer's USB 2.0 port via a single USB cable that simplifies set up – and helps keep your workspace clutter-free.



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## Drivers

DN9630 utilises dedicated audio software drivers for Windows\* PC operation (free of charge download at [klarktechnik.com](http://klarktechnik.com)), and supports the high channel counts offered via USB 2.0. Apple\* Mac OS X provides native Core Audio driver support for the DN9630.

## Built for the Road

Featuring a tough aluminium extrusion with durable protective silicone rubber corner bumpers, the DN9630 is designed to handle the rigours of live concert touring. A premium Neutrik etherCON connector ensures reliable AES50 network connection, night after night.



## 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

Sample rates	48 kHz, 96 kHz
Bit depth (Resolution)	24-Bit
AES50 Audio channels (48 kHz)	Up to 48 bidirectional channels
AES50 Audio channels (96 kHz)	Up to 24 bidirectional channels
Clock source	Incoming AES50 clock

### AES50 Interface

Connector type	Neutrik etherCON with LED status indicators
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### USB Interface

Connector type	USB 2.0 Type B
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### Ethernet Control Port

Connector type	RJ-45
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### Dimensions

Width	119 mm (4.7")
Depth	150 mm (5.9")
Height	64 mm (2.5")

### Weight

Net	0.5 kg
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## Architecture and Engineering Specifications

The network converter shall provide bidirectional digital audio format conversion between USB 2.0 and AES50.

The network converter shall include a single port AES50 interface on a Neutrik etherCON connector conforming to the Audio Engineering Society AES50-2011 standard.

The network converter shall include a USB interface with a USB type B connector conforming to the USB 2.0 specification

The network converter shall include an RJ-45 port to provide an Ethernet interface for the bidirectional AES50 auxiliary data channel as defined in the Audio Engineering Society AES50-2011 standard.

The network converter shall provide up to 48 bidirectional channels @ 48 kHz

The network converter shall provide up to 24 bidirectional channels @ 96 kHz

The network converter shall derive its clock source via the incoming AES50 clock.

The network converter shall provide LED indication of AES50 connection status of the AES50 port.

The network converter shall be 119 mm wide x 150 mm deep x 64 mm high (4.7" x 5.9" x 2.5") with nominal weight 0.5 kg.

The network converter shall be the [KLARK TEKNIK DN9630](#) and no other alternative shall be acceptable.



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