

exD konNET Audio Network Switch Owner's Manual



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Introduction

This manual describes all the features of the exD konNET Audio Network Switch and contains important warranty, safety and usage information.

SAFETY FIRST

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- The device does not contain any user-serviceable components. Do not attempt to open, dismantle or apply internal third-party devices to it. Doing so will void the warranty.

Description

exD **konNET** is a carefully designed audio network switch which dedicated to cope with the strict requirement of today's high end audio network streaming. Unlike usual computer/IT network switches, they are only ensuring proper data integrity and transmission, we pay extra attention to the finest details in improving network audio reproduction.

The complete network switch is our own design from scratch and not "hot rodding" existing switch.

Features

- Low Phase noise OCXO with its own low noise regulator ensures data and transmission stability (ppb, parts per billion stability)
- Integrated LPS (linear power supply) throughout the whole design eliminates the EMI noises from conventional SMPS (switch-mode power supply).
- Individual low-noise regulators to network chip helps improving crosstalk and other unwanted modulation among various power supply pins.
- Impedance-controlled PCB design further reduces noise and ensuring proper impedance matching.
- Modular RJ45 jack integrated with isolation magnetics shorten signal paths total length and again gives significant sonic improvement.
- Fast Ethernet (100Mbps) topology was chosen because of lower overall noise which is crucial for critical audio streaming and this speed is more than enough for the highest sample rate playback.
- Sturdy all aluminum case construction provides great vibration isolation and screening from environmental EMI/RFI.

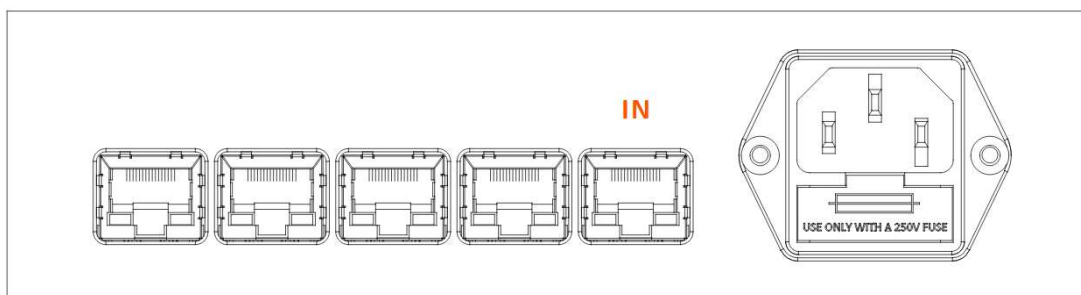
Connectivity

exD konNET provides 5x 100Mbps RJ45 network ports. Please use Only good quality Cat5e (or above) cables from reputable supplier.

Poor cables not only degrade sound reproduction but may adversely affect network performance as well.

No power switch installed for the konNET, plugging in the power cable to the IEC socket will power on the audio switch immediately.

Since there is an OCXO (Oven Controlled Crystal Oscillator) installed inside, we do not recommend switching the audio OFF when not in use.



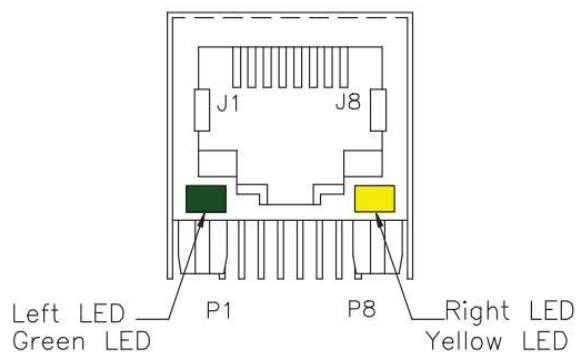
Network inputs

Mains AC input

All network inputs will provide the same speed and quality; however, some user always wants an indication of which should be the input- like connecting a *dirty* source to internet router for example, they can use the one marked as IN from the above picture.

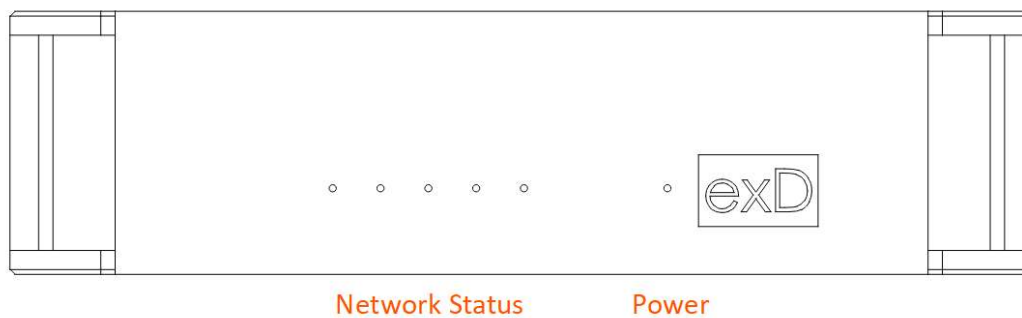
On the back panel, each RJ45 connector has two LEDs which will give you indications of the port status.

Refer to the following picture for LEDs information,



1. No cable inserted – Both LEDs off
2. **Green LED**
 - On** – Link is 100Mbps
 - Off** – Link is 10Mbps
3. **Yellow LED**
 - On** – Link established and normal
 - Blink** – Data/traffic active

Front panel indicators:



Network status indicator LEDs:

1. **Off** – No network link established or No cables
2. **On** – Network link established
3. **Blink** – Data/traffic active

Specification

- Ports: 5x RJ45 (100Mbps)
- Size: 214mm x 214mm x 55mm (W x D x H)
- Weight: 2.5kg (Net)
- Color: Silver or Black
- Mains: 220/230V or 100-110/115V AC 50/60Hz (10W max)

Mains AC fuse rating:

220/230V: 500ma(fast acting)

100-110/115V: 1000ma(fast acting)