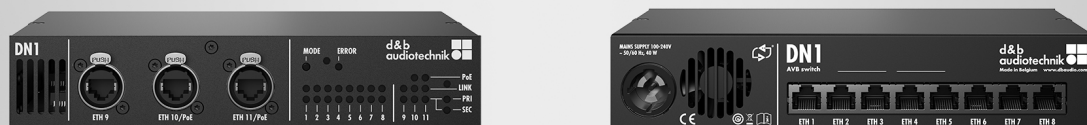


# DN1 Ethernet switch



## DN1 Ethernet switch

The DN1 Ethernet switch was developed and designed specifically for the d&b system and its workflow. It is an integral part of the d&b system network and offers an optimized feature set. The DN1 is certified by the Avnu Alliance® and supports AVB / Milan™, OCA, Dante® and standard IP traffic simultaneously. It takes a zero-configuration, plug-and-play approach that requires no switch management skills or extensive IT knowledge.

For example, the DN1 automatically detects primary or secondary AVB / Milan™ network traffic and indicates miswiring. It automatically adjusts its IP address, thus greatly simplifying the setup of redundant infrastructures.

The DN1 is housed in a rugged 1 RU x 9.5" chassis that can withstand the most demanding requirements in any audio application, and two DN1 devices can be rack mounted side-by-side.

It features eleven 802.3af-compliant Ethernet ports with connection speeds of 10 Mbit/100 Mbit/ 1 Gbit.

Three of the available Ethernet ports are etherCON® ports on the front panel. Two of these ports can provide PoE of up to 15.4 W per port and a maximum of 25 W in total.

These ports can be used to connect and power PoE enabled device such as d&b ArraySight devices. The other eight Ethernet ports are shielded RJ45 ports on the back panel of the switch for internal rack wiring.

## Power supply

Mains connector .....	powerCON® TRUE 1 TOP
Rated mains voltage .....	100 to 240 V, 50 – 60 Hz
Overvoltage protection .....	Up to 400 V AC
Power consumption .....	40 W (max)

## Operating conditions

Operating temperature .....	-10 °C ... 50 °C / 14 °F ... 122 °F
Storage temperature .....	-20 °C ... 70 °C / -4 °F ... 158 °F
Humidity (rel.), long term average .....	70%
Operating altitude .....	≤ 2000 m

## Network

Connectors front .....	3 x etherCON®
.....	2 x PoE ready, 15.4 W each/25 W total
Connectors rear .....	8 x shielded RJ45
Connection speed .....	10 Mbit/s, 100 Mbit/s, 1 Gbit/s

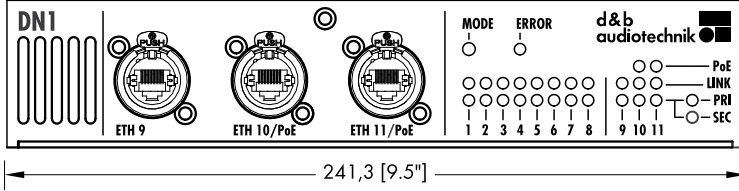
## Controls and indicators

MODE .....	Push button for different operating modes
ERROR .....	LED indicator Red
PoE .....	LED indicator Blue
LINK .....	LED indicator Green / Yellow
AVB .....	LED indicator Red / Magenta / Cyan
PRI / SEC .....	LED indicator Magenta / Cyan

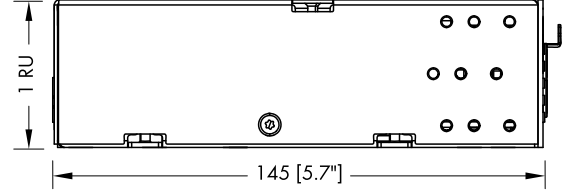
## Dimensions and weight

Height x width x depth .....	1 RU x 241 mm x 145 mm
.....	1 RU x 9.5" x 5.7"
Weight .....	1.4 kg / 3.1 lb

# DN1 Ethernet switch



DN1 dimension in mm [inch]



## Features and benefits

- Optimized for use with d&b devices
- 11 Ethernet ports:
  - 3 x etherCON® at the front (two of them PoE enabled)
  - 8 x shielded RJ45 at the back
- PoE support for ArraySight
- Zero configuration / Plug & Play
- Automatic primary / secondary Milan™ network detection
- Supports AVB / Milan™, OCA/AES70, Dante® and other IP traffic
- Rugged design for challenging mobile and installation applications

## Applications

- Mobile and permanently installed sound reinforcement systems
- Musical, theatre, rental
- Corporate and industrial rental
- Theatre & concert halls
- Live performance venues
- Night clubs
- Stadiums and arenas
- Multipurpose halls
- Houses of worship
- Corporate events & conference facilities
- Cruise ships
- All sound reinforcement applications with an audio via Ethernet networking approach

## Architectural specifications

The device shall act as an AVB Ethernet switch with Power over Ethernet functionality.

The device shall be optimized for use with d&b devices.

The device shall be certified by the Avnu Alliance® and supports AVB, Milan™, OCA, Dante® and standard IP traffic simultaneously.

The device shall automatically detect the primary or secondary AVB/ Milan™ network and automatically adjusts its IP address.

The device shall be housed in a rugged 9.5-inch chassis that can withstand the most demanding requirements in any audio application. Two devices shall be rack mountable side-by-side.

The device shall offer eleven 802.3af-compliant Ethernet ports with connection speeds of 10 Mbit/100 Mbit/1 Gbit.

In addition, the device shall provide two Ethernet ports at the front panel that are PoE ready and shall provide a maximum of 15.4 W each with 25 W in total.

The dimensions (H x W x D) shall not exceed 1 RU x 9.5" x 145 mm (1 RU x 9.5" x 5.7") and the device shall weigh no more than 1.4 kg (3.1 lb).

The device shall be the DN1 by:  
d&b audioteknik GmbH & Co. KG.