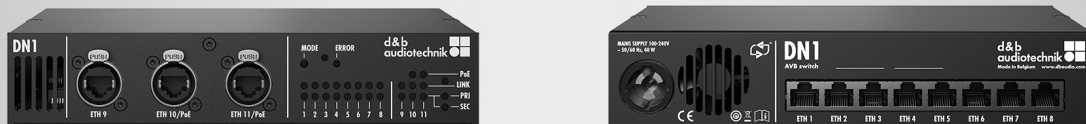# DN1 Ethernet switch

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 Mbit.
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

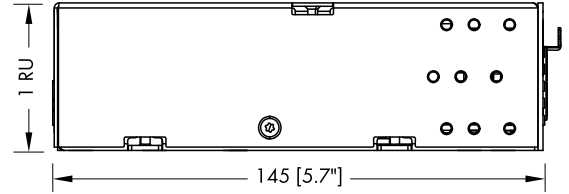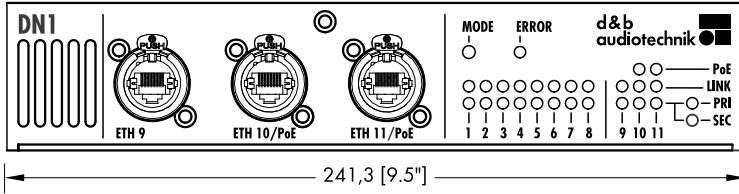|	
Connectors front	3 x etherCON®
	2 x PoE ready, 15.4 W each/25 W total
Connectors rear	8 x shielded RJ45
Connection speed	10 Mbit/s, 100 Mbit/s, 1 Gbit/s

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

d&b audiotechnik

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 Mbit.

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 audiotechnik GmbH & Co. KG.

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