

# SYNAPSE

D32i



**Dante™**  
AES67

get your venue connected

## Product Overview

The Synapse D32i is a 1RU high-density Dante break-in interface. Featuring 32 line level balanced inputs, the Synapse D32i is designed to address the needs of a wide array of commercial audio connectivity applications and venues requiring high density, high performance analog to Dante conversion.

## Key Features

- High performance analog to Dante conversion on DB-25 or Terminal block connector options to facilitate ease of use in live and touring sound, as well as fixed install commercial applications.
- Software selectable pad can be configured for professional (+4dBu) or consumer (-10dBV) input levels for each 16 channel input bank.
- Integrated front panel accessible headphone amp and high contrast OLED display provides quick and detailed feedback for audio confidence monitoring and diagnostics.
- Fully redundant Dante interface with redundant SFP expansion for simplified networking infrastructure. The SFP ports enable fiber connectivity for long range signal extension in physically large venues such as stadiums, arenas, large corporate buildings and convention centers.
- External 24 V DC input provides optional power redundancy.

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## Specifications

**Input Sensitivity:** +4 dBu / -10dBV nominal, bank switchable

**Input Impedance:** 10 k $\Omega$

**Input Type:** 3-pin De-pluggable Terminal Block or DB-25

(TASCAM Compatible Pin-out)

**Dynamic Range:** >105 dB

**THD+N:** <0.005%

**Frequency Response:** 20 Hz to 20 kHz, +/- 0.5 dB

**Headphone Output:** 1/4" Jack, front panel Mute/Volume control, minim load is 32 $\Omega$

**Supported Sample Rates:** 44.1, 48, 88.2, 96 kHz

**Dante:** Switched or Redundant Mode, 32 TX Channels  
0.250 ms minimum latency

**Network Ports:** 2 - Gb Copper on RJ-45, 2 - Gb SFP

**Certifications:** FCC 47CFR Parts 15B and 18 (Class A), EN 55011, ICES-003, CE (EN55022 Class A and EN55024 Class A)

**Dimensions:** 1 RU form factor, 19" W x 1.75" H x 12.5" D

**Weight:** 6 lbs

**Operating Temperature:** 0 to 40° C

## Applications

- Long range signal extension when utilized with integrated SFP expansion ports and fiber modules
- Centralized high density audio on ramp for AV matrix switches, wireless mic receivers, video decoders and media servers
- High channel count Dante retrofit solution for analog mixers, electronic instruments and audio processing equipment

## Software Tools

- Device configuration and monitoring supported in unIFY Control Panel v2.3 and greater
- Dante audio routing can be configured with Dante Controller or any other 3rd party Dante enabled software that supports 3rd party Dante routing

## A & E Specs

The Dante interface shall have 32 balanced line level inputs available on terminal blocks or DB-25 connectors. The input sensitivity shall be configurable in 16 channel banks for connectivity to pro (+4 dBu nominal) or consumer (-10 dBV nominal) line level inputs. The front panel display shall show audio inputs and allow assignment of any analog input to the front panel mounted headphone jack for monitoring. The Dante interface shall support a switched or redundant network mode. The device shall have two integrated Gigabit Ethernet ports on RJ-45 connectors and 2 gigabit SFP expansion slots for connectivity to a Dante network. All parameter changes will be non-volatile and self-restoring in the event of power interruption. The device shall support power redundancy. The device shall be compliant with FCC 47CFR parts 15B and 18 (Class A), EN 55011, ICES-003, RoHS and CE (EN55022 Class A and EN55024 Class A).

The device shall be the Atterotech Synapse D32i.

