



Attero Tech by QSC  
Synapse D16Mio

Dante™/AES67 networked audio interface - 16 channel I/O

Features

- 16 studio-grade mic preamps with line level capability
- Front panel network control of mic preamp gain, phantom power, mic/line input sensitivity
- 16 line level balanced outputs with front panel or network level control
- 16/24 bit, 44.1/48/88.2/96 kHz analog to Dante conversion
- Q-SYS control plugin available through Q-SYS Designer Asset Manager



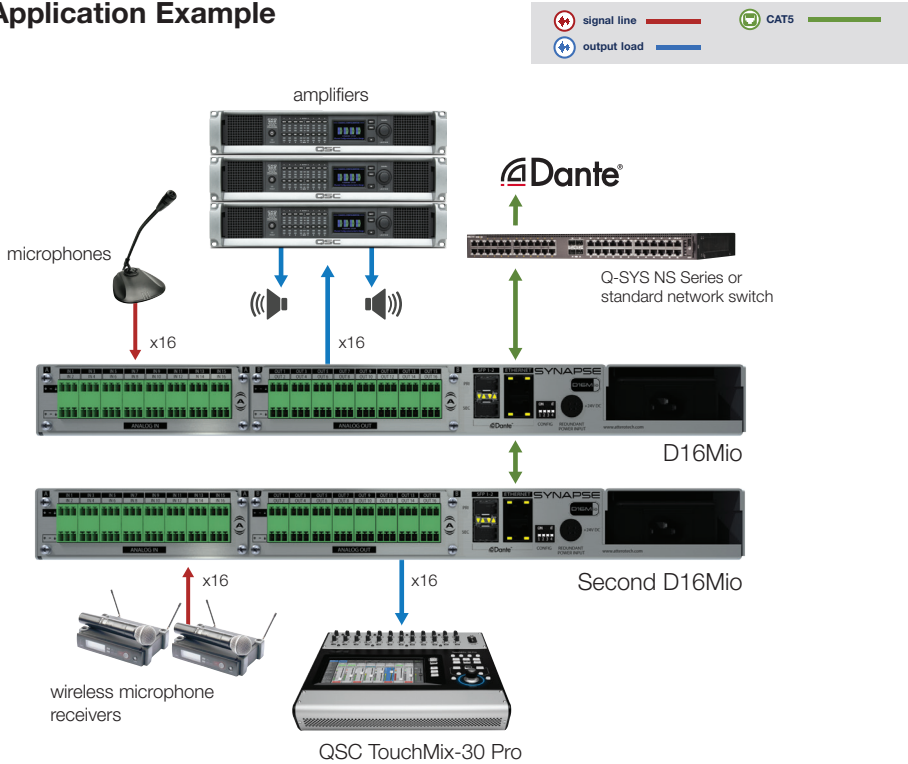
Applications: Live Sound • Stadiums • Recording Studios • Education • Conference Centers

The D16Mio is a high performance networked audio interface supporting Dante™ with AES67 interoperability. The D16Mio features 16 channels of studio grade microphone preamplifiers using mic preamp technology, with up to 51 dB of digitally controlled gain in 3 dB steps. Each microphone input also supports +48v switchable phantom power and a switchable pad for accomodation of pro line level inputs.

The balanced line level outputs feature digitally controlled output attenuation from 0 to -100 dB. All I/O are available independently via the Dante/AES67 network audio interfaces. The D16Mio is available with terminal block I/O for optimum ease of connectivity and wiring.

A Q-SYS control plugin is available that enables simple integration of the Synapse D16Mio into the Q-SYS Ecosystem.

Application Example



# Synapse D16Mio Details

## Specifications

### Mic/Line Inputs (16 Channels)

Maximum input level	-43 dBu (max mic gain) +24 dBu (pad active – line mode)
Input impedance	2k $\Omega$ minimum (mic mode) 10k $\Omega$ (line mode)
Input type	3-pin depluggable terminal block
EIN	125 dB @ max gain
Dynamic range	$\geq$ 105 dB (pad on)
THD+N	$\leq$ 0.005%, $\leq$ 0.015% (max gain)
Frequency response	20 Hz to 20 kHz, +/- 0.5 dB

### Analog Outputs (16 Channels)

Maximum output level	+24 dBu
Output impedance	200 $\Omega$
Input type	3.8 mm terminal blocks
Dynamic range	$\geq$ 110 dB
THD+N	$\leq$ 0.05%
Frequency response	20 Hz to 20 kHz, +/- 0.5 dB

### Headphone Output

Connector	1/4 in TRS jack
Controls	mute / volume encoder
Load	32 $\Omega$ minimum

### Audio Networking

Protocol support	Dante™ with AES67 support
Channel count	16 Dante RX, 16 Dante TX
Modes	Switched or Redundant Mode
Latency	0.250 ms minimum
Ports	2 - Gb Copper on RJ-45, 2 - Gb SFP
Sample rates	16/24-bit, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz

### General

Dimensions (HWD)	1 RU form factor 1.75 x 19 x 12.5 in (44.5 x 482.6 x 508.0 mm)
Weight	6 lb (2.72 kg)
Operating temperature	0 to 40° C
Regulatory compliance	FCC 47CFR Parts 15B and 18 (Class A), EN 55011, ICES-003, CE (EN55032 Class A and EN55024 Class A)

### Environmental

Power	110 V-220 V AC Input, with optional external 24 VDC redundant supply
Power consumption	<20 W

