

Thunderbolt 3, DANTE, MADI and ADAT Digital Audio Interface



Introduction.

Core 256 is an extremely capable multi-channel audio converter and digital audio interface, which is ideal in a sound studio or live music application as a versatile audio interface to your Digital Audio Workstation or computer-based effects processor.

Core 256 has digital routing and I/O is provided in an 848x848 matrix where all inputs and outputs can be patched in any combination. In addition, a 512x64 channel summing processor and a 1024 filter SPQ equalizer is also available.

Features

- Thunderbolt 3 I/O (256 channels at 48 & 96 kHz)
- Dante AoIP I/O (256 channels at 48 kHz, 128 channels at 96kHz)
- MADI I/O (64 channels at 48 kHz)
- ADAT I/O (16 channels)/SPDIF (2 channels)
- Up to 256x256 DADLink channels or 128x128 MADI channels at 48 kHz via SFP modules
- 512x64 channel PRO | MON monitor control
- Speaker EQ 128 channel w 16 filters and channel delay up-to 1s
- Control | Pack for Playback Redundancy and Show Control
- 28bit floating point processing
- Apple macOS and Windows compatible DADman control software
- Apple macOS Core Audio and Windows ASIO compatible Thunderbolt audio drivers
- Avid Eucon™ enabled devices via DADman
- Control via Ethernet or Thunderbolt connection
- Word Clock I/O
- 15W power on each Thunderbolt 3 port
- SKU: CORE256-BASE

Options and Accessories

Mount bracket: C256-2MOUNT-BRACKET
(for 19" rack mount)

PSU option: C256-PSU

Modules: MOD-SFP-1300-LZ (DADLink)
MOD-SFP-1300-LD (MADI)
MOD-SFP-COAX (MADI)

Controllers: MOM-BASE, JUNIOR-BASE



Specifications

Digital I/O and Synchronisation

Digital I/O formats/ Supported

sample rate: Dante™ IP audio and ADAT/SMUX
44.1 up to 192 kHz
S/PDIF 2ch input on ADAT
44.1 up to 96 kHz
Thunderbolt 3 and MADI
44.1 up to 384 kHz
DADLink 44.1 up to 384 kHz

Latency: Internal system delay 7 samples, can be set between 3 and 31 samples,

All outputs are time and phase aligned

DADLink: 28bit floating point format
Latency zero samples.

Synchronisation:

Word Clock, Video Black Burst, Dante, ADAT, MADI and DADLink

Network interface:

1000BASE-T, RJ45 connector, 4-pair connection

Thunderbolt 3 Interface:

2 x USB-C type connectors, supporting link functionality and 15w power on each port

Electrical Specifications

Power consumption: Digital section 15W

Thunderbolt power max 2x15W

Max rating mains: 60 W

Input voltage: 12V DC

Max input current: 5A

DC connector: 5.5x2.5 mm, plus at center, minus shield

Weight and Environmental

Weight: 1.3 kg / 2.9 lbs.

Measures: 1RU/4.44 cm
Chassis depth, 23.1 cm / 9.1"
Body width, 21.1 cm / 8.3"

Operating

Temperature: 0 – 45 °C / 32 – 113°F

Humidity: 20 to 85%, non-condensing

EMC Compliance: CISPR 32:2015, CISPR 32:2015/AMD1:2019, CISPR 35:2016, IEC 61000-3-2:2018, IEC 61000-3-2:2018/AMD1:2020, IEC 61000-3-3:2013, IEC 61000-3-3:2013/AMD1:2017, IEC ICES-003, AS/NZS CISPR 32

FCC part 15, Subpart B

Safety Compliance: IEC 62368-1: 2018