ClearOne.

CONVERGE[®] | MATRIX

ClearOne's CONVERGE MATRIX audio mixer and router opens new opportunities for largescale pro audio installations. Featuring up to 512 x 512 audio channels, it seamlessly integrates with the CONVERGE product line and any other 3rd party products, using Dante™ audio-over-IP networking technologies. It is ideal for audio distribution applications like sound reinforcement, live announcements, pre-recorded audio, emergency information, background music, and paging.





- + Government facilities
- + Corporate buildings
- + Transportation centers, Airports
- + Universities
- + Houses of Worship
- + Hospitality & Entertainment venues
- + Convention centers, Auditoriums
- + Healthcare centers
- + Cruise Ships

Features _

- + CONVERGE MATRIX supports up to 512x512 audio channel matrix
- Comes with multiple channel size: 512x512, 256x256, 128x128, 64x64
- + Expands using field upgradable Expansion Card

- + Distributes digital audio using Dante networking technology
- + Mixes and routes audio channels
- Works with all CONVERGE units (840T, 880, 880T, 880TA, 8i, SR1212, SR1212A, TH20, VH20) & CONNECT Dante bridge and WS800 wireless mic system
- + Works with any 3rd party Dante products
- + Shows full matrix view, filtered matrix view based on groups/zones
- + Provides highly scalable, reliable, modular system adds flexibility
- + Offers complete system redundancy support for network and device



CONVERGE MATRIX BACK PANEL



CONVERGE MATRIX Rear Panel without Expansion Card (256 EX, 128 EX, 64 EX)



CONVERGE MATRIX Rear Panel with Expansion Card (512, 256, 128)

Functional Specifications

MIC/LINE INPUTS & OUTPUTS

6 inputs

6 outputs

- Push-on mini-terminal block
- Frequency Response: 20Hz 22kHz @ +4dBu +/- 0.5dBu
- Equivalent Input Noise (EIN): 20kHz BW, max gain, Rs = 150Ω, -126dBu
- Dynamic Range: 20Hz 20kHz @ 0dB, >105dB
- Crosstalk (Mic/Line): Channel to Channel, stimulus at 20dBu to receptor at -56dBu, 1kHz, <-98dB
- Input Impedance (Mic/Line balanced line to ground): 2.2kQ, 1%
- Nominal Input Level: Adjustable -56dB to 0dB, 7dB step coarse gain
- Maximum Input Level: -65dBu to 20dBu
- Phantom Power: Impedance: 6.81kQ, 48V
- Output Impedance (Mic/Line balanced): 95 Ω , 1%
- Output Level: 0dBu(Nominal), 20dBu (Max), -40dBu (Selectable)

DANTE[™]

Audio channels: Up to 256x256 bidirectional @ 48kHz per pair of primary & secondary Dante ports Sample rate: 48kHz/96kHz Primary & Secondary network: Gigabit Ethernet RJ45 connector

Expansion card: Up to additional 256 x 256 bidirectional @ 48kHz

EXPANSION BUS INPUT/OUTPUT

System Diagram

Proprietary Link In & Out ports: RJ45 Cat5e/Cat6 connection for Redundancy setup

OTHER PORTS

Ethernet: 10/100 Ethernet Network Port RJ45, auto negotiation

- Serial: RS-232, DB9 Female, Serial Command Protocol Only, 9600/19200/38400/115200 Baud; 8 bits, 1 stop, no parity
- USB: Type B connector, USB 2.0 compatible
- Control/Status: DB25 Female, 8 Open Collector Outputs, 12 Active High Inputs, 5VDC
- Power Source Device Identification: 8 pin DID switch

POWER

100-240V AC, 50/60 HZ, AC inlet

OPERATING TEMPERATURE

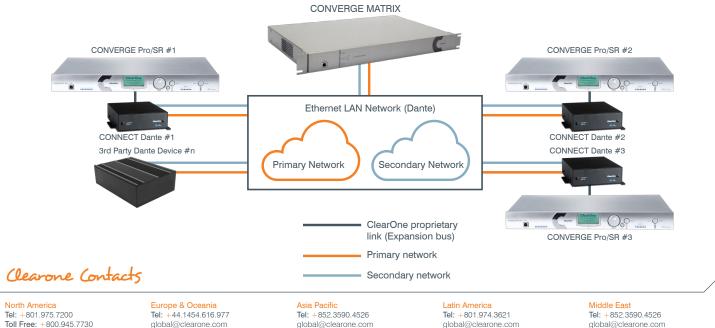
14°F/-10°C to 122°F/50°C

DIMENSION (W x D x H)

17" x 10.73" x 1.72", 43.2cm x 27.3cm x 4.4cm

PART NUMBERS

910-3000-001: CONVERGE MATRIX 256 EX 910-3000-002: CONVERGE MATRIX 512 910-3000-003: CONVERGE MATRIX 256 EXPANSION CARD 910-3000-004: CONVERGE MATRIX 128 EX 910-3000-005: CONVERGE MATRIX 128 EXPANSION CARD 910-3000-006: CONVERGE MATRIX 64 EX 910-3000-007: CONVERGE MATRIX 64 EXPANSION CARD



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