CONVERGE[®] PRO 880TA

Digital Matrix Mixer with Four Channel Power Amplifier

The CONVERGE Pro 880TA is a complete conferencing solution with four power amplifiers. The CONVERGE Pro 880TA delivers enhanced management features, simplified configuration tools and industryleading expandablity for use in virtually any venue and application.



THE INTELLIGENT CHOICE FOR PROFESSIONAL AUDIO CONFERENCING

APPLICATIONS

Boardrooms

Training Centers

Municipal Rooms

Courtrooms

Houses of Worship

Telemedicine

Presentation Systems

Zoned Paging

Masking Systems

ADVANTAGES

Advanced Feature Set

- + Next-generation Acoustical Echo Cancellation
 - > Full bandwidth (20Hz to 22KHz) echo cancellation
 - > Improved duplex performance
 - > Push-to-talk microphone compatibility
- + Next-generation Noise Cancellation
- + Increased resolution on Microphone Preamp stage
 - > 0-56 dB in 7 dB increments
- + Management Improvements
 - > Integrated Ethernet and USB connections
 - > SNMP and HTML remote management
 - > Event scheduler
 - > Diagnostic console
- + Simplified Configuration Software
 - > Drag & drop A/V and channel objects
 - > Selectable views—unit, matrix, channel
- + Expanded Serial Command List

Superior Audio Performance

- + DARE® (Dynamic Automatic Resonance Elimination) for control of feedback
- + Next-generation Distributed Echo Cancellation® on every mic input
- + First-mic priority delivers clear audio to the far end
- + 20 Hz-22 kHz bandwidth for full-range audio response
- + ALC & AGC keep participants' audio balanced and consistent

Configuration Flexibility

- + Four built-in 35 Watt amplifiers, 8Ω or 70V/100V
- + Up to 96 microphones
- Link multiple CONVERGE/CONVERGE Pro units (CONVERGE Pro 880, 880T, 880TA, 840T, 8i, TH20, CONVERGE SR 1212 and SR 1212A) for extensive microphone coverage and up to 16 phone lines
- + Enhanced expansion bus, featuring 18 mix-minus audio buses for routing between units
- + Ten mic gating groups (four internal & six global) allow separation of mics into individual mixer gating groups for greater configuration flexibility
- + 32 presets can be executed on-the-fly without disturbing other ongoing preset operations
- + 255 Macros for customized audio control/configuration with single command execution
- + No space required between rack mounted units

ClearOne.

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> CONVERGE PRO 880TA BACK PANEL



> SPECIFICATIONS

Audio Performance

Conditions: Unless otherwise specified, all measurements are performed from 20 Hz to 22 kHz BW limit (no weighting) Frequency Response: 20 Hz to 22 kHz +/- 1 dB Noise (EIN): -126 dBu, 20 kHz BW, max gain Rs= 150 Ω THD+ Noise: <0.02% Dynamic Range: >105 dB (non A weighted) Crosstalk: <-91 dB re 20 dBu full band.

Mic/Line Inputs 1-8

Push-on mini-terminal block, balanced, bridging Impedance: > 10 K\Omega Nominal Level: adjustable -56 dBu to 0 dBu (7dB step coarse gain adjustment) Maximum Level: -65 to +20 dBu Phantom Power: 24V, selectable

Line Inputs 9-12

Push-on mini-terminal block, balanced, bridging Impedance: $>10 \ K\Omega$ Nominal Level: 0 dBu Maximum Level: 20 dBu

Output 1-8

Push-on mini-terminal block, balanced, bridging Impedance: $< 50 \Omega$ Nominal Level: 0 dBu Maximum Level: 20 dBu

Auto Mixer Parameters

Number of Open Microphones (NOM) PA Adaptive Mode First Mic Priority Mode Maximum # of Mics Ambient Level Gate Threshold Adjust Off Attenuation Adjust Off Attenuation Adjust Hold Time Decay Rate Chairman Override 96 Total Microphones per site 6- Global Gating Groups 4- Internal Gating Groups

Matrix Mixing Parameters

8- Microphone Analog Inputs
4- Analog Line Inputs
8- Analog Line Outputs
4- Power Amplifier Outputs
18- Expansion Bus in/out
8- Assignable Processing Blocks in/out
1- Telco in/out

Assignable Processing Blocks

Filters All Pass Low Pass High Pass Low shelving PEQ Notch Crossovers CD Hom Compressor Delay: adjustable up to 250 ms

Power Amplifier Output Processing

FeedBack Elimination w/ring cancellation 10-band EQ filter 4-node filter bank for Crossover Delay Block Compressor/Limiter Noise Gate for Hiss Control Sound Masking Generator per channel Adaptive Volume Control Multi Channel Control

Microphone Processing

4-node filter bank AGC/ALC Wideband AEC with NLP Tail-time: 130 msec Noise Cancellation

Power Amplifiers

Channels: 4 Amplifier Output: 4x35 Watts into 8 Ω Impedance: Selectable 8 Ω , 70V, 100V THD + Noise: <0.2% (1/3 Power) Crosstalk: <-68 dB

Telco Line Port

RJ-11 POTS (plain old telephone service) or analog PBX extension A-lead supervision provided

Telco Set Port Pass-though RJ-11 analog jack

Telephone Audio Performance

Conditions: Unless otherwise specified, all measurements are performed with ALC disabled, referenced @ -15dBm on/off telephone line Frequency Response: 250 Hz to 3.3 kHz +/-1 dB THD+N: <0.3% kHz SNR: > 62 dB

Telephone Processing

LEC: 31 msec tail-time Null: >55 dB Noise Cancellation: 6-15 dB ALC

Expansion Bus

Connection: CAT 5, RJ45 Mix Minus Structure 18 Audio Buses 6 Gating Buses 8 Reference Buses

Network

10/100 Auto Switching (PC and Network Port) HTTP Server Telnet Client SMIP Agent SMIP Client DNS DHCP

RS-232

DB-9 9.6k – 115k baud 8/1/0 Hardware Flow Control

USB

Version 2.0 compatible Type: B-connector

GPIO

DB 25 female (A/B) Inputs: Active Low Outputs: Open Collector, 40Vdc, 40 mA

Power

100-240VAC; 50/60 Hz, 300 Watts (maximum) Idle: 139 BTU/hr Full Load: 779 BTU/hr Efficiency: >80%

Humidity

15 to 80%

Mechanical

 $\begin{array}{l} \mbox{Dimensions: 2RU} \\ \mbox{3.5" H x 17.25" W x 15.92" D} \\ \mbox{Weight: $< 30 lbs.} \end{array}$

Environmental

Operating temperature: 32-122 degrees F

Compliance

FCC Industry Canada CE RoHS Class 2 Wiring Required

Part Number

910-151-882 CONVERGE Pro 880TA

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