

New!

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 industry-leading expandability for use in virtually any venue and application.

ClearOne®



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

- + D.A.R.E™ (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

HDCConference™



> 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= 150Ω
 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: > 5 KΩ
 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: > 5 KΩ
 Nominal Level: 0 dBu
 Maximum Level: 20 dBu

Output 1-8

Push-on mini-terminal block, balanced, bridging
 Impedance: < 50 Ω
 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
 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
 High shelving
 PEQ
 Notch
 Crossovers
 CD Horn
 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 8Ω
 Impedance: Selectable 8Ω, 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-through 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
 SNMP Agent
 SMTP 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

Dimensions: 2RU
 Weight: < 30 lbs.

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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