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 expandablity for use in virtually any venue and application.

ClearOne®

THE INTELLIGENT CHOICE FOR PROFESSIONAL AUDIO CONFERENCING

HDConference™

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

> **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-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
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

> **CLEARONE LOCATIONS**

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