Clear One.

CONVERGE™ PRO | 880T

The Converge Pro 880T combines the rich functionality of the Converge Pro 880 with a built-in telephone interface and speaker amplifier for standalone conferencing applications. The 880T delivers enhanced management features, simplified configuration tools, and industry-leading expandability for virtually any venue or application.





Applications



Conference Rooms

Boardrooms

Courtrooms

Distance Learning Facilities

Convention Centers and Hotels

Training Rooms

Telemedicine Facilities

Houses of Worship

Features .



Advanced Conferencing 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
- > Adaptive modeling to room ambient noise condition
- + Increased resolution on Microphone Preamp stage
 - > 0-56 dB in 7 dB increments
- + Pre-AEC routing for Sound Reinforcement Applications
 - > Maximum of 4 millisecond processing delay
- + Management Improvements
 - > Integrated Ethernet and USB connections
 - > SNMP and HTML remote management agents
 - > Event scheduler
- > Diagnostic console
- + Simplified Configuration Software
 - Drag & drop A/V and channel objectsSelectable views—unit, matrix, channel
- + Expanded Serial Command List

Superior Audio Performance

- + 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

- + Built-in telephone interface and 10W power amplifier
- + Scalable link multiple Converge/Converge Pro units 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

CONVERGE PRO 880T BACK PANEL



Functional Specifications



Audio Performance

Conditions: Unless otherwise specified, all measurements are performed with a 20 Hz to 22 kHz

BW limit (no weighting)

Frequency Response: 20 Hz to 22 kHz ±1dB Noise (EIN): -126 dBu, 22 kHz BW, max gain, Rs=150 O

THD+N: <0.02%

Dynamic Range: 100 dB (non A-weighted)
Crosstalk <-91 dB re 20 dBu @ 20 kHz channel
to channel

Auto Mixer Parameters

Number of Open Microphones (NOM) PA Adaptive Mode First Mic Priority Mode Last Mic Mode Maximum # of Mics Mode Ambient Level Gate Threshold Adjust Off Attenuation Adjust Hold Time Decay Rate

Matrix Mixing Parameters

12 analog in/out 18 expansion bus in/out 8 assignable processing blocks in/out 4 assignable fader blocks in/out

1 10W speaker amplifier

1 telco input/1 telco output

Assignable Processing Blocks

Filters

All pass
Low pass
High pass
Low shelving
High shelving
Parametric EQ
Notch
CD Horn
Crossovers

Bessel

Butterworth Linkwitz-Riley

Linkwitz-Riley Compressor

Delay; adjustable up to 250 ms

Assignable Fader Blocks

Gain/Mute

Microphone Input Configuration

Input Gain Adjust Mic or Line Level

Phantom Power on/off Echo Cancellation on/off Noise Cancellation on/off Filters

All Pass Low Pass High Pass Notch PEQ Mute on/off

Chairman Override on/off AGC on/off Automatic Level Control on/off Auto Gate/Manual gate Adaptive Ambient on/off Pre-AEC channel

Mic/Line Inputs 1-8

Push-on mini-terminal block, balanced, bridging Impedance: < 10 K Ω Nominal Level: adjustable -56 dBu to 0 dBu (7 dB step

coarse gain adjustment)
Maximum Level: -65 dBu to +20 dBu
Echo Cancellation: 130 ms tail time (works with
12 dB of room gain)

Line Inputs 9-12

Push-on mini-terminal block, balanced, bridging Impedance: < 10 K Ω Nominal Level: 0 dBu Maximum Level: 20 dBu

Outputs 1-12

Push-on mini-terminal block, balanced Impedance: < 50 Ω
Nominal Level: 0 dBu
Maximum Level: 20 dBu

Amplifier Output

Binding Post Connection 10 Watts @ 4 Ω Impedance THD + Noise: < 0.5%

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 Transmit Limiter and

Receive ALC disabled

Frequency Response: 250Hz to 3.3 kHz \pm 1dB THD+N: <0.3% re-max level 250 Hz to 3.3 kHz SNR: > 62 dB re-max level

Telco Line Echo Cancellation

Tail Time: 31 ms Null: 55 dB nominal

Telephone Noise Cancellation

Noise Cancellation 6-15 dB attenuation

Expansion Bus In/Out

Proprietary Network RJ-45 (2), 1.9 Mbps CAT-5 twisted-pair cable, 200' maximum cable length

Ethernet

Autoswitching with Quality of Connection (QoC) 10/100 Mbps Ethernet Network Port 10/100 Mbps Ethernet PC Port RJ-45 Connectors

RS-232

Serial Command Protocol Only (Console software not supported on RS- 232 port)
DB-9 female
9,600/19,200/38,400/57,600/115,200 baud rate; 8 bits,
1 stop bit, no parity
Hardware flow control on (default)/off

Control/Status Ports

DB-25 female A/B (2)
Inputs A/B: active low (pull to ground)
Outputs A/B: open collector, 40 VDC max, 40
mA each
+3.3 VDC pins (2) (300 mA over-current
protected)

USB

Version 2.0 compatible Type: B-connector

Configuration & Admin Software

Converge™ Console

Power Input Range

Auto-Adjusting 100-240 VAC; 50/60 Hz

Power Consumption

30 W Typical

Dimensions (L x D x H)

17.25" x 10.25" x 1.75" 43.8 x 26 x 4.5 cm

Weight

7.5 lbs/3.3375 kg unit weight 12 lbs/5.4kg shipping weight

Operating Temperature

14° F/-10° C to 122° F/50° C ambient unit temperature

Approvals

See the Installation & Operation Manual for complete details
AES48-2005: AES standard on interconnections —
Grounding and EMC practices
— Shields of connectors in audio equipment containing active circuitry (self certified)

Optional Accessories

Converge Pro 880 Converge Pro 880TA Converge Pro 840T Converge Pro 840T Converge Pro TH20 Converge SR 1212 Converge SR 1212A Tabletop Controller



Clearone Contacts

North America

Tel: 801-975-7200 Toll Free: 800-945-7730 Sales: 800-707-6994 Fax: 801-977-0087 sales@clearone.com

Europe & Oceania

Tel: +44 (0) 1189 036 053 global@clearone.com

Asia Pacific

Tel: +852 3590 4526 global@clearone.com

Latin America

Tel: 801-974-3621 global@clearone.com

Middle East

Tel: +852 3590 4526 global@clearone.com