

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 objects
 - > Selectable 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 \pm 1dB
 Noise (EIN): -126 dBu, 22 kHz BW, max gain, $R_s=150 \Omega$
 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

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-through 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 8i
 Converge Pro TH20
 Converge SR 1212
 Converge SR 1212A
 Tabletop Controller



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