

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/3.375 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 TH20
 CONVERGE SR 1212

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