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 ±1 dB Noise (ENR) -126 dBu, 22 kHz BW max gain, Rs=-150 Ω 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-Ray
- Compressor
- Delay: adjustable up to 250 ms

Assignable Fader Blocks
Gain/Mute

Microphone Input Configuration
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 KΩ
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 KΩ
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 TLD + 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
Condition:Unless otherwise specified, all measurements are performed with Transmit Limiter and Receive ALC disabled
Frequency Response: 250 Hz to 3.3 kHz ±1 dB 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 Port
RS-45 Connectors

RS-232
Serial Command Protocol Only (Console software and 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
1 stop bit, no parity
Hardware flow control on (default)/off

Control/Status Ports
DB-25 female A/B (2)
DB-9 female
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

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 880i
CONVERGE Pro 880TA
CONVERGE Pro 880
CONVERGE Pro TH20
CONVERGE SR 1212
CONVERGE SR 1212A

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