

# CONVERGE<sup>®</sup> PRO 8i

An input-only expansion box for the **CONVERGE Pro platform. The 8i delivers** new economical configuration flexibility. It can be added to 880 or 840T systems for additional mic and line inputs, allowing customers to match the number of inputs and outputs required for audio conferencing and sound reinforcement installations.







Conference Rooms

Boardrooms

Courtrooms

**Distance Learning Facilities** 

**Convention Centers and Hotels** 

**Training Rooms** 

**Telemedicine Facilities** 

Houses of Worshipp



- Advanced Conferencing Feature Set + Economical Mic/Line only mixer for large configurations where additional output channels are not required + Next-generation Acoustical Echo Cancellation Improved duplex performance
- > Improved auplex 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

- - Integrated Ethernet and USB connections
     SNMP and HTML remote management agents
     Event scheduler
- Event schleduler
   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 + Scalable link multiple CONVERGE Pro units (880, 840T, 8i, TH20) for extensive microphone coverage and up to 16 phone lines
- + Enhanced expansion bus, featuring 12 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

- Conferencing Capability + Link with multiple CONVERGE Pro TH20s for up to 16-line capability
- Requires linking with CONVERGE Pro 880, 840T, or TH20 for output & telephone interface capabilities





# 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, 20 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

### 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



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

Notch

PEQ

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) Noise Cancellation: 6–15 dB attenuation Phantom Power: 24 V, selectable

# Line Inputs 9-12

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

## Expansion Bus In/Out

Proprietary Network RJ-45 (2), 1.9 Mbps Category 5 twisted-pair cable 200' maximum cable length between any two CONVERGE Pro products

# 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, no parity Hardware flow control on (default)/off

#### USB

Version 2.0 compatible Type B connector

# Control/Status

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)

# Configuration & Administration

Software CONVERGE Consoletm



#### Power Input Range Auto-adjusting 100–240 VAC; 50/60 Hz

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 & Compliance

AES48 compliant (audio equip grounding) U.S.A. & Canada CSA safety listed EU Countries RoHS compliant

WEEE compliant See product manual for additional details

# **Optional Accessories**

CONVERGE Pro 880 CONVERGE Pro 880T CONVERGE Pro 8i CONVERGE SR 1212 CONVERGE SR 1212A CONVERGE SR 1212A CONVERGE Pro 840T CONVERGE Pro TH20

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