# CONVERGE™ PRO | 8i

# **Professional Conferencing Input Expansion System**

An input-only expansion box for the Converge / Converge Pro platform. The 8i delivers new economical configuration flexibility. It can be added to 880, 880T, and 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 applications.

# ClearOne.



AFFORDABLE
INPUT EXPANSION
BOX FOR THE
CONVERGE /
CONVERGE PRO
PLATFORM

# CONVERGE PRO 8i APPLICATIONS

Conference Rooms

Boardrooms

Courtrooms

Distance Learning Facilities

Convention Centers and Hotels

Training Rooms

Telemedicine Facilities

Houses of Worship

## **CONVERGE PRO 8i ADVANTAGES**

#### Advanced Conferencing Feature Set

- + Economical Mic/Line only mixer for large configurations where additional output channels are not required
- + 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 conditions
- + 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 AV 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/Converge Pro units (880, 880T, 840T, 8i, TH20, SR 1212) for extensive microphone coverage and up to 16 phone lines
- + Enhanced expansion bus, featuring 12 mix-minus audio buses for routing between units
- + Eight mic gating groups (four internal & four 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 8i BACK PANEL**



#### **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**

36x24 matrix 12 analog in/out 12 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

### 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 PFQ

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

#### Mic/Line Inputs 1-8 Push-on mini-terminal block, balanced,

bridging Impedance: < 5 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: < 5 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

#### Ethernet

Autoswitching with Quality of Connection 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) 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<sup>™</sup> 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 & 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 840T Converge Pro TH20 Converge SR 1212



Tabletop Controller Button Microphone - Omni-Directional Button Microphone - Uni-Directional Delta Microphone Tabletop Microphone – Uni-Directional JBL Wall-Mount Speakers

#### Part Number

910-151-810 Converge Pro 8i - 8-channel AEC Microphone Mixer (no outputs)

## **CLEARONE LOCATIONS**

Delay; adjustable up to 250 ms

Headquarters:

Salt Lake City, UT USA 5225 Wiley Post Way Suite 500

Salt Lake City, UT 84116 Tel: 801-975-7200 Toll Free: 800-945-7730 Fax: 801-977-0087

sales@clearone.com

Latin America

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

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

**APAC** 

Tel: 801-303-3388 global@clearone.com