CONVERGE™ PRO TH20

Professional Conferencing Telephone Interface

The successor to the industry-leading XAP TH2. The TH20 enables conference call functionality for Convergetm Pro installations with its single telephone line connection. Up to 16 units can be linked for greatly expanded conferencing capability. It also adds two line-level inputs and outputs for increased system capacity.

ClearOne.



ADVANCED
TELEPHONE
INTERFACE FOR
CONVERGE™
PRO PLATFORM

APPLICATIONS

Conference Rooms

Boardrooms

Courtrooms

Distance Learning Facilities

Convention Centers and Hotels

Training Rooms

Telemedicine Facilities

Houses of Worship

ADVANTAGES

Advanced Telephone Feature Set

- + Signal Processing Improvements
 - > Telephone noice cancellation on RX channel
 - > ClearEffect speech enhancement
 - > Automatic level control on RX channel
 - > Caller ID
 - > Selectable ringers
- Increased I/O capabilities
 - > 2-line level input/output
 - > Audio expansion bus
 - 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

Superior Audio Performance

- + Digital signal processing technology ensures crystal clear audio
- + Echo cancellation eliminates telephone line echo
- + Automatic level control
- + Digital anti-alias filter minimizes hum and Central Office switching noise

Configuration Flexibility & Scalability

- + Connects to ClearOne's Converge Pro products through expansion bus port
- + Conference up to 16 callers in a Converge Pro installation with multiple TH20s
- + Configure through included Console $^{\scriptscriptstyle{\mathsf{TM}}}$ software

Ease of Use & Control

- Speed dial stores 10 frequently dialed numbers
- + Incoming call ringing is heard through the loudspeaker
- + Selectable auto-answer and auto-disconnect
- + Users can dial telephone numbers, access voice mail, pagers, etc. without the use of a separate telephone device through integrated DTMF (touch-tone) dialing
- + Software-selectable country configurations





CONVERGE PRO TH20 BACK PANEL



SPECIFICATIONS



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 ±1dB THD+N: <0.3% re-max level 250 Hz to 3.3 kHz SNR: > 62 dB re-max level

Telephone Noise Cancellation

Noise Cancellation 6-15 dB attenuation

Telco Line Echo Cancellation

Tail Time: 31 ms Null: 55 dB nominal

Telco Line

RJ-11 POTS (plain old telephone service) or analog extension from a PBX) A-lead supervision provided

Telco Set

RJ-11 POTS (plain old telephone service) or analog extension from a PBX A-lead supervision provided

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 Rs=150 Ω THD+N: <0.02% Dynamic Range: 100 dB (non Aweighted) Crosstalk <-91 dB re 20 dBu @ 20 kHz channel to channel

Line Inputs 1, 2

Push-on mini-terminal block, balanced, bridging Impedance: $< 5 \text{ k}\Omega$ Nominal Level: 0 dBu Maximum Level: 20 dBu

Line Outputs 1,2

Push-on mini-terminal block, balanced Impedance: $< 50 \ \Omega$ Nominal Level: 0 dBu Maximum Level: 20 dBu

Expansion Bus In/Out

Proprietary Network RJ-45 (2), 1.9 Mbps, 110 KΩ Impedance Category 5 twisted-pair cable, 200' maximum cable length between any two Converge Pro devices

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

USB

Version 2.0 compatible Type: B-connector

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)



Configuration & Administration 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

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 AES48-2005: AES standard on interconnections — Grounding and EMC practices — Shields of connectors in audio equipment containing active circuitry (self certified) 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 SR 1212 Converge SR 1212A Converge Pro 840T Converge Pro TH20 Tabletop Controller

Part Number

910-151-820 Converge Pro TH20 Telephone Interface for Converge/ Converge Pro Platform

CLEARONE LOCATIONS

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