# CONVERGE<sup>®</sup> PRO VH20

Voice Over Internet Protocol Interface

The VH20 is a VoIP end-point device. It provides easy direct connection to SIP based phone systems or the transport of audio on an IP network without the need of a VoIP PBX.

# **ClearOne**



# ADVANCED SIP, **VOIP INTERFACE** FOR CONVERGE **PRO PLATFORM**

# **APPLICATIONS**

**Conference Rooms** 

Boardrooms

Courtrooms

**Distance Learning Facilities** 

**Telemedicine Facilities** 

Audio Distribution

Paging

Public Address

# **ADVANTAGES**

- + VH20 can be added to any audio system
- + Full Security Capability with TLS, AES, SRTP
- + Robust Provision/Dial Plan for easy integration with Enterprise PBX
- + Complete interoperability testing using manufacturer SIP test plans and equipment

# **FEATURES & BENEFITS**

- + SIP standard VoIP Hybrid
- + TLS and SRTP Capabilities
- + VLAN Tagging/QOS
- + Scalable with multiple on-site VH20 units
- + Support for wideband Audio G.722
- + Cisco, Avaya, Nortel Interop tested

# **INTEROPERATION**

- + Simplified configuration software
- + Scalable Link to other CONVERGE Pro units for unified control and system expansion
- + Integral web server for control and configuration



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20	Product Line Strategy Award										



# **ClearOne**

# > CONVERGE PRO VH20 BACK PANEL



# > SPECIFICATIONS

# **VoIP Features**

SIP V2 (RFC 3261 and compananion RFCs) Codec Support G.711u G.711A G.722 wideband audio G.729 G.723.1

## **Security Features**

Full Security Capability with TLS, AES, SRTP

## **Noise Cancellation**

Noise Cancellation 6-15 dB attenuation

#### 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 Rs=150  $\Omega$  THD+N: <0.02% Dynamic Range: 100 dB (non A-weighted) Crosstalk <-91 dB re 20 dBu @ 20 kHz channel to channel

#### Line Inputs 1, 2

Push-on mini-terminal block, balanced, bridging Impedance: < 10 kΩ 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), 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

#### Network

Remote Management & Configuration HTTP web server Telnet Client SMTP Client SNMP Agent DNS DHCP

# 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 AES48-2005: 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 Pro 8 CONVERGE SR 1212 CONVERGE SR 1212A CONVERGE Pro 840T CONVERGE Pro 7H20 Tabletop Controller

#### Part Number

910-151-825 Converge Pro VH20 Telephone Interface for CONVERGE/ CONVERGE Pro Platform

# **CLEARONE LOCATIONS**

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