# **ClearOne**

## CONVERGE<sup>™</sup> PRO VH20

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.







- Conference Rooms
- Boardrooms
- Courtrooms
- **Distance Learning Facilities**
- **Telemedicine Facilities**
- Audio Distribution
- Paging
- Public Address

# Features

- + 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, ShoreTel 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





### Functional Specifications

#### **VoIP Features**

SIP V2 (RFC 3261 and compananion RFCs) Codec Support G.711u G.711A G.722 wideband audio G.729AB 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 ±1dB 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

#### Line Inputs 1, 2

Push-on mini-terminal block, balanced, bridging Impedance:  $< 10 \text{ k}\Omega$ 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), 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<sup>™</sup> 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 **FU** 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 Pro 840T Converge Pro TH20 Tabletop Controller

#### Part Number

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

## Clearone Contacts

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