

CONVERGE™ 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.



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



> CONVERGE PRO VH20 BACK PANEL



> SPECIFICATIONS

VoIP Features

SIP V2 (RFC 3261 and companion 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
 ±1 dB 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 kΩ
 Nominal Level: 0 dBu
 Maximum Level: 20 dBu

Line Outputs 1,2

Push-on mini-terminal block, balanced
 Impedance: < 50 Ω
 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 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 LOCATIONS

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