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.

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

HDConference™

> **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.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
$\pm$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 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**