

ClearOne 48VT Specs

Mic/Line Inputs and Outputs

Inputs

Outputs

Frequency Response

Equivalent Input Noise

Total Harmonic Distortion (THD) + N

Dynamic Range

Crosstalk

Input Impedance

Nominal Input Level

Maximum Input Level

Phantom Power

Output Impedance

Output Level

USB Audio

Port Type

Audio

Sample Rate

Bit Depth

Compatible

Telephone Specifications

Port Type

Frequency Response

Total Harmonic Distortion (THD) + N

Dynamic Range

REN

Transhybrid Balance

VoIP

Port Type

Audio

Codec

Balanced Audio Inputs: 0.15" / 3.81 mm Orange Color
Push-On Mini-Terminal Block

Balanced Audio Outputs: 0.15" / 3.81 mm Black Color
Push-On Mini-Terminal Block

20 Hz to 22 kHz at +4 dBu, ± 0.5 dBu

20 kHz BW, Max Gain, $R_s = 150$ Ohms, -126 dBu

20 Hz to 22 kHz at +4 dBu, Line Level, 0.006%

20 Hz to 22 kHz at -56 dBu, Mic Level, < 0.04%

20 Hz to 20 kHz at 0 dB, > 105 dB

Mic/Line: Channel to Channel, Stimulus at 20 dBu to

Balanced (Line to Ground), 2.2 Kilohms, 1%

Adjustable -56 dB to 0 dB, 7 dB Step Coarse Gain

-65 dBu to 20 dBu

48 V, 6.81 Kilohms

Balanced (Line to Ground), 95 Ohms, 1%

Nominal: 0 dBu

Maximum: 20 dBu

Selectable: -40 dBu

USB-B Connector

Digital Audio, 2 x 2 Bidirectional Channels

48 kHz

Sample: 24-Bit

USB 2.0

USB 3.0

RJ11

Mic/Line Input to Telephone Out: 250 Hz to 3.4 kHz,

Telephone In to Mic/Line Out: 250 Hz to 3.4 kHz, ± 2

Mic/Line Input to Telephone Out: < 0.1% at 4 dBu

Telephone In to Mic/Line Out: < 0.3% at -15 dBu

Mic/Line Input to Telephone Out: >67 dBu

Telephone In to Mic/Line Out: >87 dBu

Ringer Equivalent Number: 0.2

30 dB (1 kHz, All AC Terminations)

RJ45, 10/100 Mb/s Ethernet Network, Auto Negotiation

5 Lines

G.711 uLaw, G.711 ALaw, G.722

Skype

Ethernet

Port Type

IP Address Assignment

Dante Network

Port Type

Audio

C-Link Expansion Bus

Port Types

P-Link Peripheral Bus

Port Types

P-Link Connector

PoE

Audio

Cable

Distance

Long Distance P-Link

RS232 Parameters

Port Type

Settings

Support

GPIO

Port Type

Support

Skype for Business (S4B):

Microsoft Skype for Business Support (1 Client)

Choose Either Regular VoIP or S4B Through Configuration

RJ45, 10/100 Mb/s Ethernet Network, Auto Negotiation

IPv4 (IPv6 Upgradeable Through Future Software, Firmware)

RJ45 Gigabit Ethernet Connectors for Primary and Secondary

Digital Audio, 16 x 16 Bidirectional Channels

Sample Rate: 48/96 kHz

Sample Bit Depth: 24-Bit

AES67 Mode: Enabled through Dante Controller Software

RJ45 (Cat 5e or Cat 6)

C-Link In & Out: Proprietary Expansion Bus

Audio: 64 Expansion Channels

Cable: Solid Core, Factory Terminated Cat 5e or 6 Cable

Distance: Up to 150' / 45 m

RJ45 (Cat 5e or 6)

In and Out: Proprietary Peripheral Bus

In: P-Link In Port

PoE 802.3 af Mode B, Midspan

Power On "Spare Pairs" 4, 5 and 7, 8

Input Voltage Range: 48 to 56 V

Up to 3 Beamforming Microphone Array 2 Units + Up to 3

Units + Up to 3 USB Expander Units + Up to 3 GPIO

Solid Core, Factory Terminated Cat 5e or 6 Cable

Up to 200' / 60 m

Increases P-Link Distance from 200 x 650' / 61.0 x 198.1

650' / 200 m Maximum Cable Distance Between any Two

Cat 6, 550 MHz, 23 AWG, Solid Conductor Cable

Do Not Use Copper Clad Aluminum (CCA) Cable

Available Only for BFM2 Peripheral Units

48 V PoE Midspan Mode B Power Injector for 1 BFM2

56 V PoE Midspan Mode B Power Injector for 3 BFM2

DB9 Female

9600/19200/38400/57600/115200 Baud; Serial Echo;

Serial Commands

0.2" / 0.5 cm Green Color Phoenix/Euroblock Type M

Control, Status, Variable Voltage Control

Power Pin Assignment

5 VDC at 350 mA Power Source

Pin 1 to 4:

Open Collector Outputs: 40 VDC at 250 mA

Active Outputs (Source/Sink): 5 VDC at 25 mA

Logic Inputs: 40.2 Kilohms Pull Up

Variable Voltage Control Inputs: 5 VDC Max

Ground Pin: GND

Pin Assignments

USB Control

Port Type

USB-B Connector

Location

Front Panel

Compatible

USB 2.0, USB 3.0

LEDs

Location

Front Panel

Off: Unit Still Initializing

Blue - Fast Blinking: Stack Syncing in Progress

Blue - Slow Blinking: Unit Not Configured

Blue - Solid: Configured Unit

Red - Fast Blinking: Stack Sync Error

Locate LED: Blue - Blinking: Unit "Locate" Command

Power LED: Blue - Solid: Unit Is Powered On

Status LEDs

LED

Touch Sensor

Sensor Type

Capacitive Touch Button

Location

Front Panel

Power

Port Type

AC Inlet

Mains Voltage

100 to 240 VAC, 50/60 Hz

Power Consumption

50 W Typical

Thermal

170 BTU/Hr Typical

Operating Temperature

14 to 104°F / -10 to 40°C

Dimensions & Weight

Rack Units

1 RU

Dimensions

Without Rack Ears: 17 x 10.7 x 1.7" / 43.2 x 27.3 x 4.3

With Rack Ears: 19 x 10.7 x 1.7" / 48.3 x 27.3 x 4.4

Weight

9.3 lb / 4.2 kg