

ClearOne Converge Pro 2 Specs

Mic/Line Inputs and Outputs

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| Inputs | Balanced Audio Inputs: 0.15" / 3.81 mm orange color Phoenix/Euroblock male header, push-on mini-terminal block |
| Outputs | Balanced Audio Outputs: 0.15" / 3.81 mm black color Phoenix/Euroblock male header, push-on mini-terminal block |
| Frequency Response | 20 Hz to 22 kHz @ +4 dBu, ± 0.5 dBu |
| Equivalent Input Noise | 20 kHz BW, max gain, $R_s = 150$ Ohms, -126 dBu |
| Total Harmonic Distortion (THD) + N | 20 Hz - 22 kHz @ +4 dBu, line level, 0.006% 20 Hz - 22 kHz @ -56 dBu, mic level, < 0.04% |
| Dynamic Range | 20 Hz - 20 kHz @ 0 dB, > 105 dB |
| Crosstalk | Mic/Line: Channel to channel, stimulus at 20 dBu to receptor at -56 dBu, 1 kHz, < -98 dB |
| Input Impedance | Balanced (line to ground), 2.2 kOhms, 1% |
| Nominal Input Level | Adjustable -56 dB to 0 dB, 7 dB step coarse gain |
| Maximum Input Level | -65 dBu to 20 dBu |
| Phantom Power | 48 V, impedance 6.81 kOhms |
| Output Impedance | Balanced (line to ground), 95 Ohms, 1% |

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| Output Level | Nominal: 0 dBu Maximum: 20 dBu Selectable: -40 dBu |
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USB Audio

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| Port Type | USB-B connector |
| Audio | Digital audio, 2 x 2 bidirectional channels |
| Sample Rate | 48 kHz |
| Bit Depth | Sample: 24-bit |
| Compatible | USB 2.0 USB 3.0 |

Ethernet

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| Port Type | RJ45, 10/100 Mb/s Ethernet network, auto negotiation |
| IP Address Assignment | IPv4 (IPv6 upgradeable through future s/w, f/w upgrade) |

Dante Network

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| Port Type | RJ45 Gigabit Ethernet connectors for primary and secondary ports |
| Audio | Digital audio, 16 x 16 bidirectional channels Sample Rate: 48 kHz, 96 kHz Sample Bit Depth: 24-Bit |

C-Link Expansion Bus

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|------------|---|
| Port Types | RJ45 (Cat 5e or 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 |
|------------|---|

P-Link Peripheral Bus

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|----------------------|---|
| Port Types | RJ45 (Cat 5e or 6) |
| P-Link Connector | In and Out: Proprietary peripheral bus |
| PoE | In: P-Link in port PoE 802.3 af mode B, midspan Power on "spare pairs" 4, 5, 7, and 8 Input Voltage Range: 48 V to 56 V |
| Audio | Up to 3 Beamforming microphone array 2 units + Up to 3 DIALOG 20 wireless receiver units + Up to 3 USB expander units + Up to 3 GPIO expander units |
| Cable | Solid core, factory terminated Cat-5e or -6 cable Distance: Up to 200' / 60 m |
| Distance | Up to 150' / 200 m |
| Long Distance P-Link | Increases P-Link distance from 200 x 650' / 61.0 x 198.1 m 650' / 200 m maximum cable distance between any two units 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 unit
56 V PoE midspan mode B power injector for 3
BFM2 units

RS232 Parameters

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| Port Type | DB9 female |
| Settings | 9600/19200/38400/57600/115200 Baud; Serial Echo; Flow Control |
| Support | Serial commands |

GPIO

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| Port Type | 0.2" / 0.5 cm green color Phoenix/Euroblock type male header |
| Support | Control, status, variable voltage control |
| Power Pin Assignment | 5 VDC @ 350 mA power source |
| Pin Assignments | Pin 1 to 4: Open Collector Outputs: 40 VDC @ 250 mA Active Outputs (Source/Sink): 5 VDC @ 25 mA Logic Inputs: 40.2 kOhms pull up Variable Voltage Control Inputs: 5 VDC max Ground Pin: GND |

USB Control

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|------------|------------------|
| Port Type | USB-B connector |
| Compatible | USB 2.0, USB 3.0 |

Power

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|-----------------------|---------------------------|
| 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 and Weight

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|------------------------|---|
| Rack Units | 1 RU |
| Dimensions (W x D x H) | 17.0 x 10.7 x 1.7" / 43.2 x 27.3 x 4.4 cm without rack-ears 19.0 x 10.7 x 1.7" / 48.3 x 27.3 x 4.4 cm with rack-ears |
| Weight | 9.3 lb / 4.2 kg |
