CONVERGE Pro 2 is the industry's most advanced professional audio DSP platform for conferencing and sound reinforcement applications. It outperforms in any size room, audio environment, and application.

The 128 model mixer has 12 inputs with AEC, 8 outputs, USB audio; GPIO, RS232, IP control interfaces; and P-Link and C-Link expansion buses.

CONVERGE Pro 2 is optimized to work with the new Beamforming Mic Array 2 and DIALOG® 20 2-Channel Wireless Microphone System through its native connection.

**Powerful Architecture**
- 12 Mic/Line inputs with AEC
- Built-in USB for PC-based conferencing
- Reduced footprint and power consumption

**Audio Signal Processing**
- Next-gen Acoustic Echo Cancellation processing
- Distributed Echo Cancellation® on every mic input
- Noise Cancellation with Adaptive-Ambience
- Acoustic Intelligence with faster convergence
- DARE™ feedback elimination
- Advanced microphone gating

**Scalable Connectivity**
- Standalone and daisy-chained system
- Stack up units up to 144 Mic/Line inputs
- Expansion bus “C-Link” with 64 channels
- “P-Link” bus to connect peripheral devices

**Application**
- PC-based conferencing & Unified Communications
- Video codec-based Video Conferencing

**Configuration & Management**
- New CONSOLE® software
- Auto-discovery of devices
- MatrixView™ for entire system
- FlowView™ for visualized audio signal paths
- System monitoring and troubleshooting

**Flexible Control Options**
- Dialer app for Windows, Mac, iOS, Android
- Touch Panel Controller with tabletop and wall mount options
- 3rd-party control modules
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</tbody>
</table>
MIC/LINE INPUTS & OUTPUTS

Inputs: Balanced audio inputs, 3.81mm Orange color Phoenix/Euroblock type male header, Push-on mini-terminal block

Outputs: Balanced audio outputs, 3.81mm Black color Phoenix/Euroblock type male header, Push-on mini-terminal block

Frequency Response:
- 20Hz – 22KHz (± 4dBu, +/− 0.5dBu)
- 20Hz – 22KHz (± 56dBu, mic level, < 0.05%)

Dynamic Range:
- 20Hz – 20KHz @ 0dB, > 99dB

Crosstalk (Mic/Line):
- Channel to Channel, stimulus at 200mV to receptor at –56dBu, 1kHz, < –98dB

Input Impedance:
- Balanced (line to ground), 2.2kΩ, 1%

Nominal Input Level:
- Adjustable -56dB to 0dB, 7dB step coarse gain

Maximum Input Level:
- +150mV to 20dBu

Phantom Power: 48V, Impedance 6.81kΩ

Output Impedance:
- Balanced (line to ground), 95Ω, 1%

Output Level:
- 0dBu (Nominal), 20dBu (Max), -40dBu (Selectable)

USB AUDIO

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

ETHERNET

Port Type:
- RJ-45, 10/100Mbps Ethernet Network, Auto Negotiation
IP address:
- IPv4 (IPv6 upgradeable through future s/w, f/w upgrade)

C-LINK EXPANSION BUS

Ports Type:
- RJ-45 (Cable or Cat6)

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 (45M)

P-LINK PERIPHERAL BUS

Ports Type:
- RJ-45 (Cable or Cat6)

P-LINK In & Out: Proprietary Peripheral Bus
PoE In:
- PoE In Port
- PoE BFM2 Midspan B, MidsPan
- PoE in “spare pairs” 4.5 and 7.8
- Input voltage range: 48V to 56V
Audio: Up to 3 Beamforming Microphone Array 2 units + up to 3 DUALDG2 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’ (60M)

Long Distance P-Link:
- Increases P-Link distance from 200 Ft to 650 Ft
- 650 Ft (200M) maximum cable distance between any two units

C-Link 500 Mhz, 23 AWG solid conductor cable
Do not use Copper Clad Aluminum (CCA) cable
Available only for BFM2 peripheral units
48V PoE Midspan Mode B power injector for 1 BFM2 unit
56V PoE Midspan Mode B power injector for 3 BFM2 units

RS232

Port Type: DB9 Female
Settings:
- 115200 Baud; Serial Echo; Flow Control

Support: Serial commands

GPIO

Port Type: 5.08mm Green color Phoenix/Euroblock type male header
Support: Control, Status, Variable Voltage Control
Power Pin: 5V DC @ 350mA Power Source
Pin 1 to 4:
- Open Collector Outputs: 40V DC @ 250mA
- Active Outputs (Source/Sink): 5VDC @25mA
Logic Inputs: 40.2kΩ pull up
- Variable Voltage Control Inputs: 5VDC max

Ground Pin: GND

POWER & THERMAL

Port Type: AC inlet
Mains Voltage: 100-240V AC, 50/60Hz
Power Consumption: 50 Watts Typical
Thermal: 170 BTU/Hr Typical

Operating Temperature:
- 14°F (-10°C) to 104°F (40°C) Ambient Temperature

DIMENSION & WEIGHT

RU size: 1 RU
Width x Depth x Height:
- 1. Without rack-ears:
  - 17”W x 10.73”D x 1.72”H (43.2cm x 27.3cm x 4.4cm)
- 2. With rack-ears:
  - 15”W x 10.73”D x 1.72”H (43.2cm x 27.3cm x 4.4cm)

Unit Weight: 9.3 lbs (4.2 kg) (Approximately)
Shipping Weight: 13.8 lbs (6.3 kg) (Approximately)

PACKAGE

Power Cord: 6’ (1.8M), Grounded, Qty 1
Input Connectors:
- Terminal Block Connector, 3 Position (Orange), Qty 12
Output Connectors:
- Terminal Block Connector, 3 Position (Black), Qty 8

C-Link Cable:
- RJ-45 to RJ-45 Cable, 18’ (45.7cm), Qty 1
USB Cable:
- USB Type A to Type B, 6’ (1.8M), Qty 1
- Rack Ears: Pre-installed, Qty 2
- Screw/ Washer Kit: Rack Decor, Qty 4

PART NUMBERS

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<th>Part Number</th>
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SALES AND INQUIRIES

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