An advanced multi-channel microphone automixer with built-in support for Dante audio networking, VoIP conferencing, a Telco interface, and the latest audio DSP algorithms.

- 12 mic/line inputs and 8 mic/line outputs.
- Support for SIP-based conferencing up to 5 lines and 5 calls based on line configuration.
- 16 Dante inputs and 16 Dante outputs for audio networking.
- Analog Telco interface.
- Built-in Skype for Business client.
- Built-in USB audio.
- Built-in DARE™ algorithm for dynamic feedback elimination.
- C-Link and P-Link enable easy addition of DSPs and peripherals.
- Configure an entire system of C-linked DSPs with Pro Console software.
- Flexible control options include Touch-Panel Controller, BYOD dialer apps or 3rd party control modules.
- Reduced foot-print and power consumption.

**Applications**
- VoIP conferencing
- POTS conferencing
- Audio recording
- Pre-recorded digital audio
- Audio networking over a LAN
- Web conferencing
- UC audio conferencing
- Sound reinforcement
- Bridge web conferences

**Workspaces**
- Conference rooms
- Training rooms
- Lecture halls
- Courtrooms
- Telemedicine theaters
- Houses of Worship

**Everything you need**
Supports SIP or Skype for Business, Dante®, 12 configurable mic/line audio inputs, 8 configurable mic/line audio outputs, built-in USB audio, and a Telco interface for POTS calls.

**Easy Integration**
Daisy-chain the CONVERGE Pro 2 with the BMA CT, DIALOG® 20 2-Channel Wireless Microphone System, and other peripheral devices through P-Link.
### 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
- **EIN (Equivalent Input Noise):** 20kHz BW, max gain, Rs = 150Ω, -126dBu
- **THD + N (Total Harmonic Distortion + Noise):**
  - 20Hz – 22kHz @ +4dBu, line level, 0.006%
  - 20Hz – 22kHz @ -56dBu, mic level, <0.04%
- **Dynamic Range:** 20Hz – 20kHz @ 0dB @ 0dB, >105dB
- **Crosstalk (Mic/Line):** Channel to Channel, stimulus at 20dBu 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:** -65dBu 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

### TELEPHONE
- **Port Type:** RJ11
- **Frequency Response:**
  - Mic/Line Input to Telephone Out: 250Hz – 3.4kHz , +/- 2dB, 4dBu
  - Telephone In to Mic/Line Out: 250Hz – 3.4kHz, +/-2dB, -15dBu
- **THD + N:**
  - Mic/Line Input to Telephone Out: <0.1% @ 4dBu
  - Telephone In to Mic/Line Out: <0.3% @ -15dBu
- **Dynamic Range:**
  - Mic/Line Input to Telephone Out: >67dBu
  - Telephone In to Mic/Line Out: >87dBu
  - REN: Ringer Equivalent Number 0.2
  - Transhybrid Balance: 30dB (1kHz, all AC terminations)

### VOIP
- **Port Type:** RJ-45, 10/100Mbps Ethernet Network, Auto Negotiation
- **Audio:** 5 Lines
- **Codec:** G.711 uLaw, G.711 A-law, G.722
- **Skype for Business (S4B):**
  - Microsoft Skype for Business support (1 client)
  - Choose either regular VoIP or S4B through configuration

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

### DANTE™ AUDIO
- **Port Type:** RJ-45 Gigabit Ethernet connectors for Primary and Secondary Ports
- **Audio:** 5 Lines
- **Codec:** G.711 uLaw, G.722

### P-LINK PERIPHERAL BUS
- **Ports Type:** RJ-45 (Cat5e or Cat6)
- **P-Link In & Out:** Proprietary Peripheral Bus
- **PoE In:**
  - **P-Link In Port**
  - PoE 802.3af Mode B, Midspan
  - Power on “spare pairs” 4,5 and 7,8
  - Input voltage range: 48V to 56V
  - Audio: Up to 3 BMA CT 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’ (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
  - Cat6, 550 MHz, 23 AWG, solid conductor cable

### C-LINK EXPANSION BUS
- **Ports Type:** RJ-45 (Cat5e 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)
### CONVERGE Pro 2 128VTD

- 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: 9600/19200/38400/57600/115200 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: 40VDC @ 250mA
  - Active Outputs (Source/Sink): 5VDC @25mA
  - Logic Inputs: 40.2kΩ pull up
  - Variable Voltage Control Inputs: 5VDC max
- Ground Pin: GND

#### USB CONTROL
- Port Type: USB-B connector
- Location: Front Panel
- Compatible: USB 2.0, USB 3.0

#### LEDs
- Location: Front Panel
- Status LED:
  - 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 received
- Power LED: Blue - Solid: Unit is powered on

#### TOUCH SENSOR
- Sensor Type: Capacitive Touch Button
- Location: Front Panel

#### 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 (43.2cmW x 27.3cmD x 4.4cmH)
  2. With rack-ears: 19”W x 10.73”D x 1.72”H (48.3cmW x 27.3cmD x 4.4cmH)
- 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, 4 Position (Orange), Qty 12
- Output Connectors: Terminal Block Connector, 3 Position (Black), Qty 8
- GPIO Connector: Terminal Block Connector, 6 Position (Green), Qty 1
- C-Link Cable: RJ-45 To RJ-45 Cable, 18” (45.7cm), Qty 1
- VoIP Cable: RJ-45 To RJ-45, 7’ (2M), 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 NUMBER
- 910-3200-009-D CONVERGE Pro 2 128VTD

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**SALES AND INQUIRIES**

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