



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

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

The CONVERGE Pro 2 128SR is optimized to work with the new DIALOG® 20 2-Channel Wireless Microphone System through its native connection.

Powerful Architecture

- + 12 Mic/Line inputs
- + Reduced footprint and power consumption

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

Configuration & Management

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

Audio Signal Processing

- + Acoustic Intelligence for better audio
- + DARE™ feedback elimination
- + Advanced microphone gating

Application

- + Sound Reinforcement applications

Flexible Control Options

- + 3rd-party control modules for integrated systems



APPLICATIONS

Convention Centers

Transportation Hubs

Houses of Worship

Training Rooms

Lecture Halls

Courtrooms

Auditoriums

PRODUCT SPECIFICATIONS

Unless otherwise specified, all measurements are performed with a 20Hz to 22kHz BW (no-weighting).

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, $R_s = 150\Omega$, -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, >105dB

Crosstalk (Mic/Line):
Channel to Channel, stimulus at 20dBu to receptor at -56dBu, 1kHz, < -98dB

Input Impedance:
Balanced (line to ground), 2.2k Ω , 1%

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

Maximum Input Level: -65dBu to 20dBu

Phantom Power: 48V, Impedance 6.81k Ω

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

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

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 (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)

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 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)

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: 40.2k Ω 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:

- Without rack-ears:
17"W x 10.73"D x 1.72"H (43.2cmW x 27.3cmD x 4.4cmH)
- 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, 3 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

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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