



The GPIO Expander expands the GPIO capability of a CONVERGE Pro 2 mixer by providing an additional 12 input and 12 output pins.

This device gives integrators flexible connections to program LED activations on the microphones, trigger third-party devices; and trigger presets based on room configuration, such as combine/divide.

The GPIO expander can be daisy-chained with other P-Link peripheral devices such as the Beamforming Mic Array 2, DIALOG 20 Receiver, and USB Expander. It can also be used as a P-Link distance extender.

GPIO

- + 12 Logic inputs
- + 12 Open-collector outputs
- + Additional Power and Ground pins
- + Euroblock-type connectors

Daisy-Chainable

- + Maximum 3 GPIO Expanders per CP2 device
- + Daisy-chains and co-exists with other P-Link devices

Form Factor & Mounting

- + Compact form factor:
1/3rd RU width, 1U height
- + Rack-shelf mount
- + Under the table mount
- + Wall mount
- + Ceiling mount

Applications

- + Activate LED on microphones
- + Trigger macros and/or presets
- + Activate Camera tracking
- + Activate global mute with master button

Extends Distance

- + By 200 Feet (60 meters) from CP2 device
- + By 200 Feet (60 meters) for other P-Link devices

Connectivity & Power

- + Direct connection to CONVERGE Pro 2 (CP2), Beamforming Microphone Array 2, and DIALOG 20 Wireless Receiver
- + P-Link for power, audio, control from CP2
- + PoE Injector for power
- + RS-232 connection for control interface
- + Euroblock connections for GPIO



VENUES

Boardrooms

Conference Rooms

Huddle Rooms

Training Rooms

Lecture Halls

Courtrooms

Auditoriums

Telemedicine Facilities



PRODUCT SPECIFICATIONS

GPIO

Total Pins:

- Inputs: 12
- Outputs: 12
- 5V DC: 1 for every 3 I/O pins
- GND: 1 for every 3 I/O pins

Port Type: 5 Position 3.81mm Phoenix/Euroblock type, male header (Green)

Input Blocks: 4

Each Block, Pins 1 to 5:

- Pin 1: 5V DC @ 350mA Power Source
- Pins 2, 3, 4: Logic inputs, 40.2kΩ pull up
- Pin 5: Ground

Output Blocks: 4

Each Block, Pins 1 to 5:

- Pin 1: 5V DC @ 350mA Power Source
- Pins 2, 3, 4: Open Collector outputs 40VDC @ 250mA
- Pin 5: Ground

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 GPIO Expander units + Beamforming Microphone Array 2 units + up to 3 DIALOG 20 Wireless Receiver units, along with up to 3 GPIO Expander units in the same chain

Cable: Solid core 24AWG, factory terminated Cat 5e or Cat 6 cable

Distance: Up to 200 feet (60 meters)

Daisy-chain:

- Up to 3 GPIO Expanders with each CONVERGE Pro 2 unit
- Up to 3 Beamforming Microphone Array 2 units and up to 3 DIALOG 20 Wireless Receiver units along with up to 3 GPIO expander units with each supported CONVERGE Pro 2 unit in the same chain
- Up to 6 GPIO Expander units in the same chain with 2 supported CONVERGE Pro 2 units connected through C-Link

RS232

Type: 3 Position (Tx, Rx, Gnd) 3.81mm Grey Header, Male, Phoenix type Euroblock connectors

Support: Serial commands

Connection: Connect with Touch Panel Controller for CP2, 3rd-party control devices

POWER SELECTION SWITCH

Sensor Type: Slide Switch

Toggle toward P-Link to power device by P-Link

Toggle toward PoE to power device by PoE Injector

PoE In PORT

Port Type: RJ-45 port

PoE: 802.3af or 802.3at PoE/PoE+ injector input

CONFIGURATION & ADMINISTRATION SOFTWARE

CONVERGE Pro 2 CONSOLE Software

FRONT PANEL LEDS

Power LED:

- Off: Not powered
- Solid Blue: Powered ON

Status LED:

- Off: No P-Link plugged in
- Solid Blue: P-Link plugged in and system working normally
- Flashing Blue: Locate mode initiated from CP2 CONSOLE Software
- Red: Error condition

MOUNTING

- Rack-shelf mount
- Under the table mount
- Wall mount
- Ceiling mount

POWER & THERMAL

Power Type: PoE/PoE+

Port Type: RJ-45

Power Source: P-Link or PoE Injector

PoE In/P-Link In: 802.3af or 802.3at PoE/PoE+

Power Source Indicator: Set the position of the Power Select switch to indicate the source of the power (P-Link or PoE)

Mains Voltage: 100-240V AC, 50/60Hz

Power Consumption: 6.32 Watts Typical

Typical Thermal: 21.60 BTU/Hr Max

Operating Temperature:

14°F/-10°C to 104°F/40°C Ambient Temperature

DIMENSION & WEIGHT

Width x Depth x Height:

- Without rack-ears:
5.5 x 1.6 x 4.1 in or 140.4 x 41.7 x 103mm
- With rack-ears:
6.8 x 1.7 x 4.1" or 172.4 x 42.6 x 103mm

Unit Weight: 0.88 lbs (0.4 kg)

PARTS INCLUDED

Rack Mounting Ears: Pre-installed, Qty 2

Input Connectors:

3.81mm Terminal Block Connector, 3 Position (Grey), Qty 1

GPIO Connector:

3.81mm Terminal Block Connector, 5 Position (Green), Qty 8

PART NUMBERS

Part Number	Product
910-3200-301	GPIO Expander for CONVERGE Pro 2
910-3200-202	PoE+ Power Injector Kit for 3 Devices
910-001-004	PoE Power Injector for 1 Device
910-6106-001	1U Universal Rack-Shelf
910-3200-204-50	50 ft RJ45 CAT6 Cable
910-3200-204-100	100 ft RJ45 CAT6 Cable
910-3200-204-150	150 ft RJ45 CAT6 Cable
910-3200-204-200	200 ft RJ45 CAT6 Cable

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