

Sonnex™ Multiroom Audio Expander, 4-Zone



The SWAMPE-4 is a 4-zone expander for the [Sonnex™](#) Multiroom Audio System ([SWAMP-24X8](#)) from Crestron®. It adds 4 stereo amplified zones supporting full room control and source selection, with advanced DSP, speaker profiles, output bussing, mono summing, amplifier bridging and monitoring. The SWAMPE-4 interfaces with the SWAMP-24X8 via a single CAT5e shielded twisted pair (STP) cable up to 200 ft (61 m) in length^[1]. Plug-and-play connectivity affords an extremely easy installation, affording full control access to all the SWAMPE-4 functions through the SWAMP-24X8.

While the main SWAMP-24X8 unit resides in the central equipment rack along with all the source devices, the SWAMPE-4 is ideally designed for installation at a remote location near the rooms it serves. This “decentralized” approach minimizes speaker wiring for higher performance and efficiency, and a faster, easier and less expensive installation.

Like the SWAMP-24X8, the SWAMPE-4 delivers a generous 140 Watts into 8 Ohms and 240 Watts into 4 Ohms per each of 8 channels (configured as 4 zones), and is bridgeable for 400 Watts per channel at 8 Ohms. Even with such incredible power, the SWAMPE-4 runs cool and efficiently and requires only three rack spaces for mounting.

Please see the [SWAMP-24X8](#) spec sheet for complete Sonnex system information.

SPECIFICATIONS

Audio

Input Signal Types: Sonnex Link

Output Signal Types: Stereo speaker level

Typical of up to 4 amplified stereo zone outputs:

Digital-To-Analog Conversion: 24-bit 48 kHz

Output Power: 140 Watts per channel at 8 Ohms;

240 Watts per channel at 4 Ohms;

400 Watts per channel at 8 Ohms bridged

Damping Factor: >200 @ 20 Hz

Amplifier Monitoring: Over Current, Over/Under Voltage, Over Temperature, DC Offset, Clipping

Frequency Response: 20 Hz to 20 kHz ±0.5 dB

THD: 0.02%

S/N Ratio: >105dB SPDIF in, >100dB balanced or unbalanced analog in, A-weighted

Stereo Separation: >90dB

Zone Separation: >95dB

Zone Volume Level Control: -80.0 to +20.0 dB, adjustable from 0% to 100% plus mute

Bass Control: ±12.0 dB

Treble Control: ±12.0 dB

Loudness Compensation: On/Off

Dynamic Range Control: On/Off

Balance Control: Left/right adjustable

Mono Summing: Selectable

Power Limiting: Sonnex Speaker Protect™ (SSP™) output limiting; configurable 40 to 140 Watts @ 8 Ohms, 40 to 240 Watts @ 4 Ohms, 40 to 400 Watts @ 8 Ohms bridged

Tone Profiles: Flat, Classical, Jazz, Pop, Rock, Spoken Word

EQ Modes: 5-band graphic or 5-band parametric EQ

GEQ Center Frequencies: 63, 250, 1k, 4k, 16k Hz

GEQ Gain: ±12.0 dB per band

PEQ Filter Types: EQ, High Pass, Low Pass, Treble Shelf, Bass Shelf, Notch

PEQ Center Frequency: 10 to 20,000 Hz per band

PEQ Gain: ±12.0 dB per band

PEQ Bandwidth: 0.1 to 3.5 octaves per band

Speaker Profiles: Comprises 5-band GEQ and SSP settings

Bus Volume Offset: ±12.0 dB per zone for output bussing

Communications

Sonnex Link: 64-channel (48 utilized) digital audio w/embedded control, auto-discovery, auto-negotiating

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Connectors

DIGITAL IN: (1) 8-wire RJ45 female (8P8C modular jack);
Sonnex link input, connects to SWAMP-24X8 Multiroom Audio System^[1]

FUSE (US/North America): Main fuse, T8AH;
(1/4" x 1-1/4", 250V, 8A, time-lag, high-rupture rated)

FUSE (International): Main fuse, T4AH;
(1/4" x 1-1/4", 250V, 4A, time-lag, high-rupture rated)

120V~50/60Hz MAX 6A (US/North America): (1) IEC C14 male chassis plugs, main power input; mates with removable power cord (included)

220-240V~50/60Hz MAX 3A (International): (1) IEC C14 male chassis plugs, main power input; mates with removable power cord (included)

G: 6-32 screw, chassis ground lug

SPEAKER OUTPUTS LEFT/RIGHT 1 – 4: (8) 2-pin 7.62mm 15A detachable terminal blocks, power amplifier outputs;

Wire Size: Terminals accept up to 14 AWG

Controls & Indicators

On/Off: (1) Rocker switch, turns unit on and off

PWR: (1) green LED, indicates unit is turned on

ZONE 1 – 4: (4) pushbuttons and green LEDs, select output zone for routing and adjustment

DIGITAL IN (rear): (1) green and (1) amber LEDs, green indicates link status and amber indicates data communication

Bridging: (4) red LEDs, indicate adjacent outputs are configured for bridged operation

Power Requirements

Main Power (US/North America): 6 Amps @ 120 Volts AC, 50/60 Hz

Main Power (International): 3 Amps @ 220-240 Volts AC, 50/60 Hz

Environmental

Temperature: 41° to 104°F (5° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 300 BTU/Hr (140W@8Ω), 450 BTU/Hr (240W@4Ω)

Enclosure

Chassis: Metal with black finish, vented sides, variable-speed fan-cooled

Front Panel: Extruded aluminum, black finish with polycarbonate label overlay

Mounting: Freestanding or 3U 19-inch rack-mountable (feet and rack ears included)

Dimensions

Height: 5.83 in (149 mm);
5.20 in (133 mm) without feet

Width: 19.0 in (483 mm);
17.29 in (439 mm) without rack ears

Depth: 18.22 in (463 mm)

Weight

60 lb (27.3 kg)

MODELS & ACCESSORIES

Available Models

SWAMPE-4: Sonnex™ Multiroom Audio Expander, 4-Zone

SWAMPIE-4: Sonnex™ Multiroom Audio Expander - International Version, 4-Zone

Available Accessories

SWAMP-24X8: Sonnex™ Multiroom Audio System

SWAMPI-24X8: Sonnex™ Multiroom Audio System - International Version, 220-240V

EXCITE_IC5: Excite™ 5.25" 2-Way In-Ceiling Speakers, Pair

EXCITE_IC6: Excite™ 6.5" 2-Way In-Ceiling Speakers, Pair

EXCITE_IC8: Excite™ 8" 2-Way In-Ceiling Speakers, Pair

EXCITE_IW5: Excite™ 5.25" 2-Way In-Wall Speakers, Pair

EXCITE_IW6: Excite™ 6.5" 2-Way In-Wall Speakers, Pair

EXCITE_IW8: Excite™ 8" 2-Way In-Wall Speakers, Pair

AIR-SR4: AIR™ 4" Outdoor Surface Mount Speakers, Pair

AIR-SR6: AIR™ 6.5" Outdoor Surface Mount Speakers, Pair

AIR-SR8: AIR™ 8" Outdoor Surface Mount Speakers, Pair

DM-CBL-8G-NP: High-Performance CAT5e Shielded Twisted-Pair Cable, non-plenum

DM-CBL-8G-P: High-Performance CAT5e Shielded Twisted-Pair Cable, plenum

DM-8G-CONN-100: Cable Connector for DM-CBL-8G, 100-Pack

DM-8G-CRIMP: Crimping Tool for DM-8G-CONN

S-EXT1-S: Sonnex™ Link over Fiber Extender

SAT-70V/100V-2: 2-Channel Sonnex™ Output Transformer

SAT-70V/100V-4: 4-Channel Sonnex™ Output Transformer

Notes:

1. For connection of the Sonnex Link between the SWAMPE-4 and [SWAMP-24X8](#), use Crestron [DM-CBL-8G](#) or high-quality CAT5e shielded twisted-pair cable. The maximum cable length is 200 ft (61 m).

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

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SWAMPE-4 – Rear View

