



Audio Conferencing

XAP™ 800 Audio Conferencing System

Gentner's new XAP[™] 800 takes the revolutionary AP800 to the next level of functionality and becomes the new standard of audio conferencing performance.

The XAP 800 features Gentner's proprietary Distributed Echo Cancellation[®] and noise cancellation technology for dramatically reduced echo and noise; a proven software architecture for easy, reliable configuration; a 32x32 matrix with level control (in .5dB steps) at each cross point to simplify complex mixing operations; and 20Hz–20kHz bandwidth for full-range audio response.

The XAP 800's Distributed Echo Cancellation features 130ms of tail time, which provides highly effective echo cancellation while keeping reaction time short and additional noise from being created. A tail time of 130ms optimizes echo cancellation in the majority of room scenarios.

Basic functions such as volume and source selection can be controlled remotely with the optional Gentner Control Panel. It's available in two models—the Volume Control and Select Control—for flexible, seamless operation.

The XAP 800 can also be controlled via proven, reliable G-Ware[™] software architecture, RS-232 port, presets, macros, logic in/out, and contact closure.

Applications

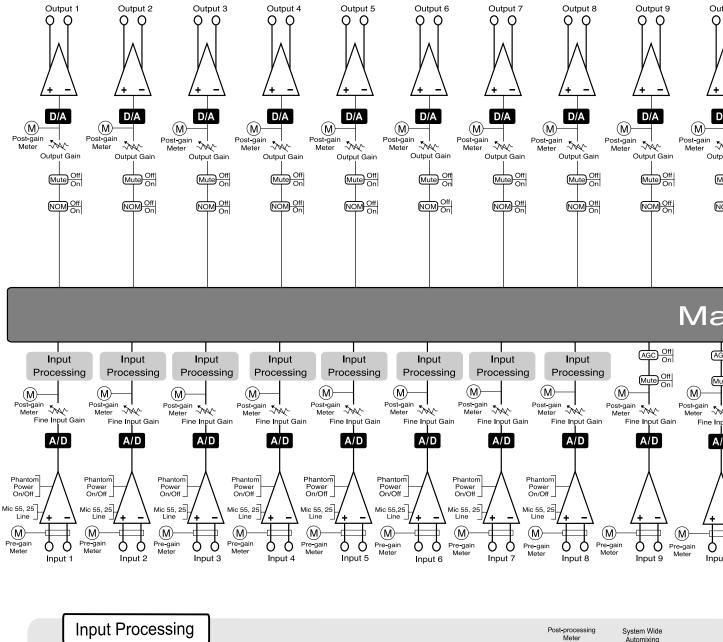
- Conference Rooms
- Boardrooms
- Courtrooms
- Distance Learning
- Teletraining
- Telemedicine
- Hotels
- Houses of Worship

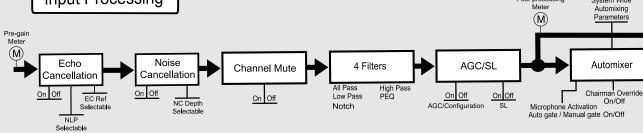


The XAP 800 features Distributed Echo Cancellation on each mic input.

Features and Benefits

- Noise cancellation on each mic/line input provides up to 15dB of noise attenuation
- Enhanced Expansion Bus, featuring 12 bi-directional audio buses
- Up to 80 feet (24 meters) between connected units
- Linkable eight units can be linked for a total of 64 microphones
- Labels for all inputs, outputs, macros, and presets are saved within the unit
- Four input filters on each of eight mic inputs. Programmable as parametric EQ, notch, all pass, low pass, and high pass
- Eight independent processing blocks, each with 15 filters; delay; and compressors to provide pinpoint audio configuration
- Four internal and four global mic mixers, each with parameter adjustments
- 32 presets that can be executed on-the-fly without disturbing other ongoing preset operations
- Macro Pro scripting language simplifies macro creation with point-and-click convenience
- XAP 800 works in rooms with up to 12dB of room gain to handle the most challenging room environments
- · Look-ahead gating ensures no audio clipping
- Internal signal generator for convenient, fast sound system calibration
- Adjustable minimum and maximum gain levels for each input, output, and processor to control the range of gain
- Compatible with the XAP TH2 telephone interface for teleconferencing capability

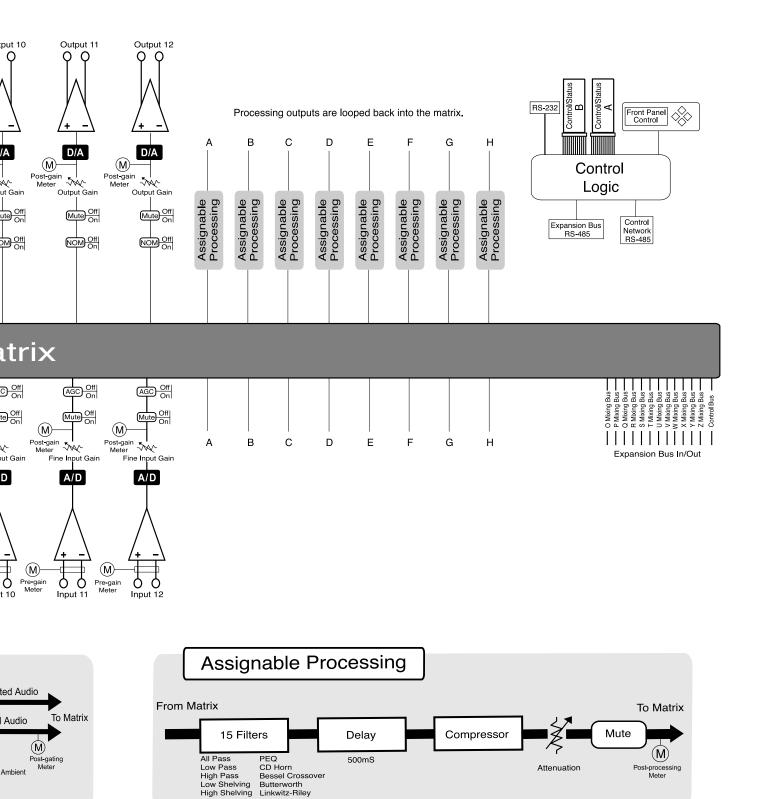




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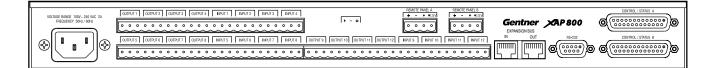
Adaptive



M = Meter Reference Point

Notch

audio conferencing



Specifications

Dimensions (LxDxH) 17.25" x 10.25" x 1.75" 43.8 x 26 x 4.5 cm

Weight 7 lb/4.5 kg dry 12 lb/5.9 kg shipping

Operating Temperature 32–100° F/0–38° C

Humidity 15% to 80%, non-condensing

Power Input Range Auto-adjusting 100–240VAC; 50/60Hz

Power Consumption 30W typical

Expansion Bus In/Out

Proprietary Network RJ-45 (2), 115.2kbps, 110k Ω impedance Category five twisted-pair cable 80' (24 meters) maximum cable length between any two XAP 800s, XAP 400s, or PSR1212s

RS-232

DB-9 female 9,600/19,200/38,400 (default)/57,600 baud rate; 8 bits, 1 stop, no parity Hardware flow control on (default)/off

Control/Status

DB25 female A/B (2) Inputs A/B: active low (pull to ground) Outputs A/B: open collector, 40VDC max, 40mA each

+5VDC pins (2) (300mA over-current protected)

Remote Panels A/B 4-pin push–on terminal block

RS-485 Proprietary Protocol Category five twisted-pair cable 1 pair data, 1 pair power and ground +15VDC (300mA over-current protected)

Mic/Line inputs 1-8

Push-on terminal block, balanced, bridging Impedance: $5k\Omega$ Nominal Level: adjustable -55dBu, -25dBu, 0dBu Maximum Level: -35dBu, -5dBu, +20dBu Echo Cancellation: 130ms tail time (works with 12dB of room gain) Noise Cancellation: 6–15dB attenuation Phantom Power: 24V, selectable

Line Inputs 9-12

Push-on terminal block, balanced, bridging Impedance: >10k Ω Nominal Level: 0dBu Maximum Level: 20dBu

Outputs 1-12

Push-on terminal block, balanced Impedance: 50Ω Nominal Level: 0dBu Maximum Level: 20dBu

Audio Performance

Conditions: Unless otherwise specified, all measurements are preformed with a 22Hz to 22kHz BW limit (no weighting) Frequency Response: 20Hz to 20kHz +/- 1dB Noise (EIN): -126dBu, 20kHz BW, max gain, Rs=150 Ω THD+N: <0.02% SNR: 80dB re 0dBu, (A-weighted) Dynamic Range: 100dB (A-weighted) Crosstalk <-91dB re 20dBu @ 20kHz channel to channel

Approvals

FCC, CSA, IC, CE, NOM, ACA, SABS, JATE

Assignable Processing Blocks

Filters: All pass Low pass High pass Low shelving High shelving Parametric EQ Notch CD Horn

Crossovers Bessel Butterworth Linkwitz-Riley Compressor Delay adjustable up to 500ms

Matrix Mixing Parameters

32x32 matrix 12 analog in/out 12 Expansion Bus in/out 8 assignable processing blocks in/out

Auto Mixer Parameters

Number of Open Microphones (NOM) PA Adaptive Mode First Mic Priority Mode Last Mic Mode Maximum # of Mics Mode Ambient Level Gate Threshold Adjust Off Attenuation Adjust Hold Time Decay Rate

Microphone Input Configuration

Input Gain Adjust Mic or Line Level Phantom Power on/off Echo Cancellation on/off Noise Cancellation on/off Filters All Pass Low Pass **High Pass** Notch PEQ Mute on/off Chairman Override on/off AGC on/off Speech Leveler on/off Auto Gate/Manual gate Adaptive Ambient on/off

Set-up Software G-Ware™

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