XAP 800

AUDIOCONFERENCING SYSTEM



PRODUCT OVERVIEW

Gentner's new XAP 800 takes the revolutionary AP800 to the next level of functionality and becomes the new standard of audioconferencing 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 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.

FEATURES/BENEFITS

- **Distributed Echo Cancellation** on each mic input for dramatically-improved echo cancellation.
- **Noise cancellation** on each mic/line input provides up to 15dB of noise reduction.
- Full **32x32 cross point matrix** allows any input/output configuration and level control at each cross point for pinpoint accuracy (in .5dB steps).

- Full bandwidth audio—20Hz-20KHz response with echo cancellation activated.
- 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.
- The XAP 800 can be controlled via:
 - Proven, reliable **G-Ware** software architecture
 - RS-232 port
 - presets
 - macros
 - logic in/out
 - contact closure
 - Gentner Control Panel (optional)
- **Labels** for all inputs, outputs, macros, and presets are saved within the unit—no more remembering where your site file is saved.
- 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-thefly without disturbing other ongoing preset operations.

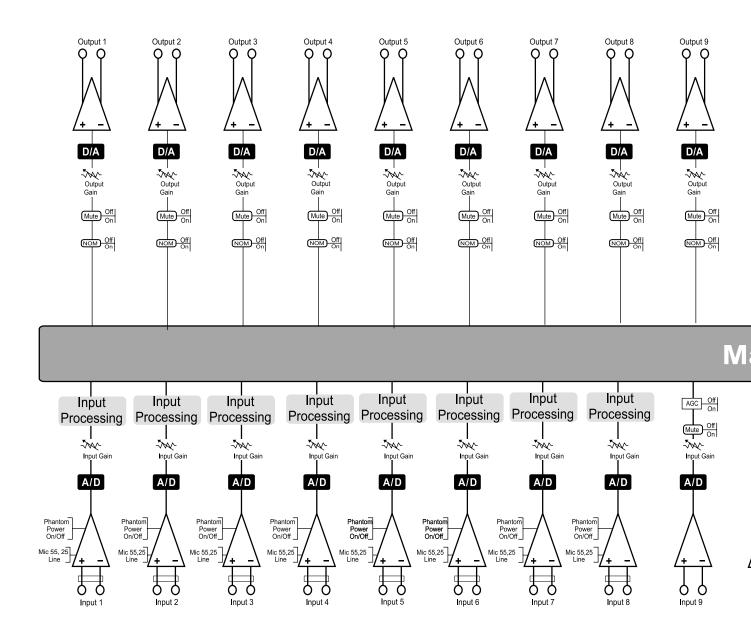
- Macro Pro scripting language simplifies macro creation with point-and-click convenience.
- XAP 800 works in rooms with up to **12dB of room gain** to handle the most challenging room environments.
- Look-ahead gating ensures no audio clipping.
- **Internal signal generator** for convenient, fast sound system calibration.
- Adjustable minimum and maximum gain levels for each input, output, and processor to limit the range of gain.
- Compatible with the XAP TH1 telephone interface for teleconferencing capability.

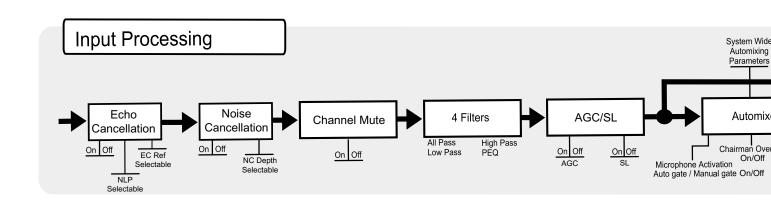
APPLICATIONS

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

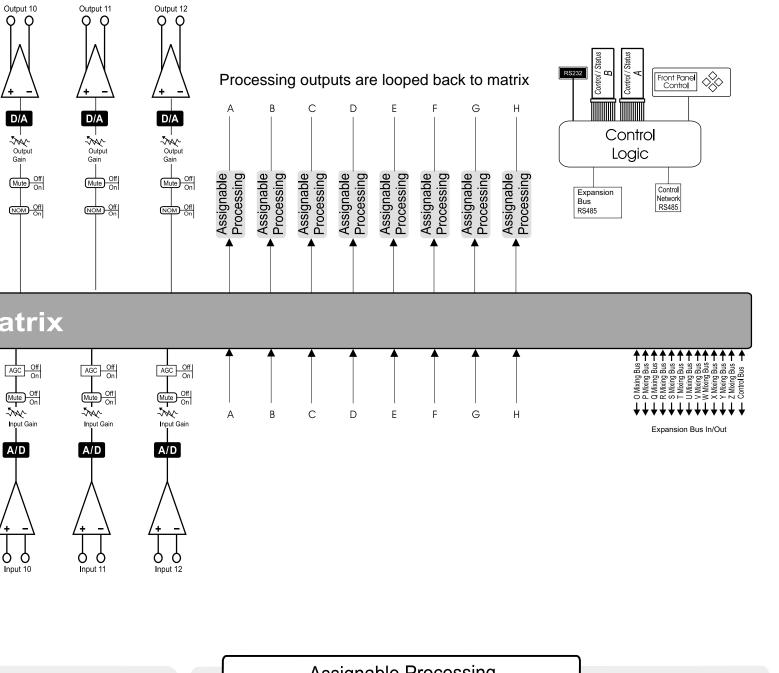


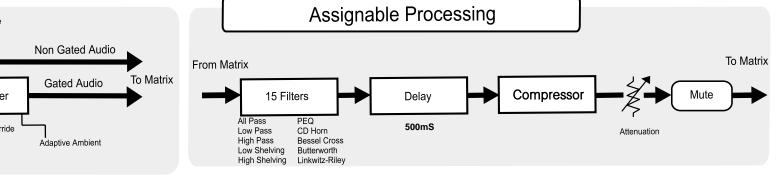
Perfect Communication through Technology, Service, and Education®





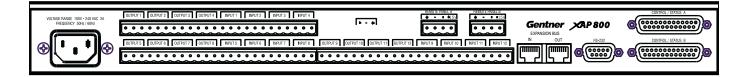
Gentner





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SPECIFICATIONS

DIMENSIONS (WxHxD)

 $17^{1}/4'' \times 1^{3}/4'' \times 10^{1}/4''$ (43.8 x 4.5 x 26.0 cm)

WEIGHT

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

POWER REQUIREMENTS

Auto-adjusting power module, 100-240VAC; 50/60Hz

Fuse: 2 amp, 250VAC, slow blow type Power Consumption: 30W, typical

95 BTU/Hr

Phantom Power: 24V, selectable

ECHO CANCELLATION

Tail Time: 130ms (works with 12dB of

room gain)

NOISE CANCELLATION

Attenuation: 15dB

AUDIO PERFORMANCE

Frequency Response: 20Hz to 20KHz + .5dB

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Noise: (EIN 20Hz to 20KHz) -126dB

THD: <0.003% SNR: >100dB

Dynamic Range: 100dB (A-weighted)

Headroom: 20dB MIC/LINE INPUTS

Connector: Removable terminal block; OdBu nominal adjustable, balanced,

bridging

Impedance: 7k0hms

LINE INPUTS

Connector: Removable terminal block; OdBu nominal adjustable, balanced,

bridging

Impedance: > 20k0hms

LINE OUTPUTS

Connector: Removable terminal block; OdBm nominal level adjustable, balanced Impedance: 50 Ohms

OTHER CONNECTORS

RS-232: DB9 female (DCE) 9,600/19,200/38,400/57,600 baud

Control/Status A: DB25 female

Inputs A: active low (pull to ground)
Outputs A: Open collector, 20V max,

40mA each

Control/Status B: DB25 female

Inputs B: active low (pull to ground)
Outputs B: Open collector, 20V max,

40mA each (2)

+5VDC, 300mA each

OPERATING TEMPERATURE

32 - 100°F / 0 - 38°C

OPERATING HUMIDITY

15% to 80%, non-condensing

APPROVALS

FCC Part 15, CSA NRTL/C, CE

AUDIO FUNCTIONS

Filters: All pass; low pass; high pass; low shelving; high shelving; parametric EQ; notch; CD horn EQ; crossover; Bessel, Butterworth, and Linkwitz-Riley crossovers; compressors; matrix mixer

w/cross point level control; automatic gain control; and automatic mic mixer.

Signal Delay: Adjustable up to 500ms. G-Ware calculates distances.

SYSTEM CONFIGURATIONS

- 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

CHANNEL CONFIGURATIONS

Microphone inputs may be configured globally or individually, including:

- Input gain adjust
- Mic or line level
- Phantom power on/off
- Mute on/off
- Chairman override on/off
- High-pass filter on/off
- EQ adjustable, on/off
- AGC on/off
- Auto gate/Manual gate/Gate override
- Adaptive ambient on/off

Gentner

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