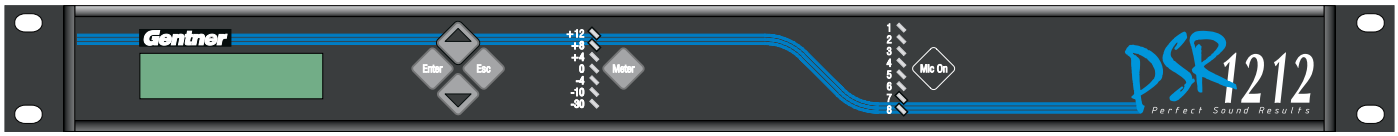
PSR1212

DIGITAL MATRIX MIXER WITH AUDIO PROCESSING



PRODUCT OVERVIEW

The PSR1212 is a highly-advanced twelve-by-twelve digital matrix mixer with audio processing. It utilizes an internal macro language and 32 user-definable presets to quickly adapt to a variety of **sound reinforcement** and room-combining applications in auditoriums, stadiums, theatres, gymnasiums, hotel/convention centers, conference rooms, training rooms, and boardrooms.

The PSR1212 facilitates local and remote PC setup and diagnostics. Microphone inputs can be individually customized to gate on and off as you wish, while Automatic Gain Control keeps the overall sound level consistent.

All microphone mixing parameters can be customized and any combination of inputs can be routed to any combination of outputs, allowing flexibility in accommodating different applications and customer requirements.

Adjustments in routing, level, and other functions can be made through an RS232 serial interface or buttons connected to the rear panel.

The PSR1212 features eight audio processing buses. Each bus has 15 filters which can be configured as parametric, high pass, low pass, CD horn, high shelving, low shelving, all pass, or crossover. Each bus also includes delay and compressor/limiter functions. This allows you to tailor the PSR1212's audio response to optimize the audio quality and fidelity characteristics of a wide variety of sound reinforcement systems.

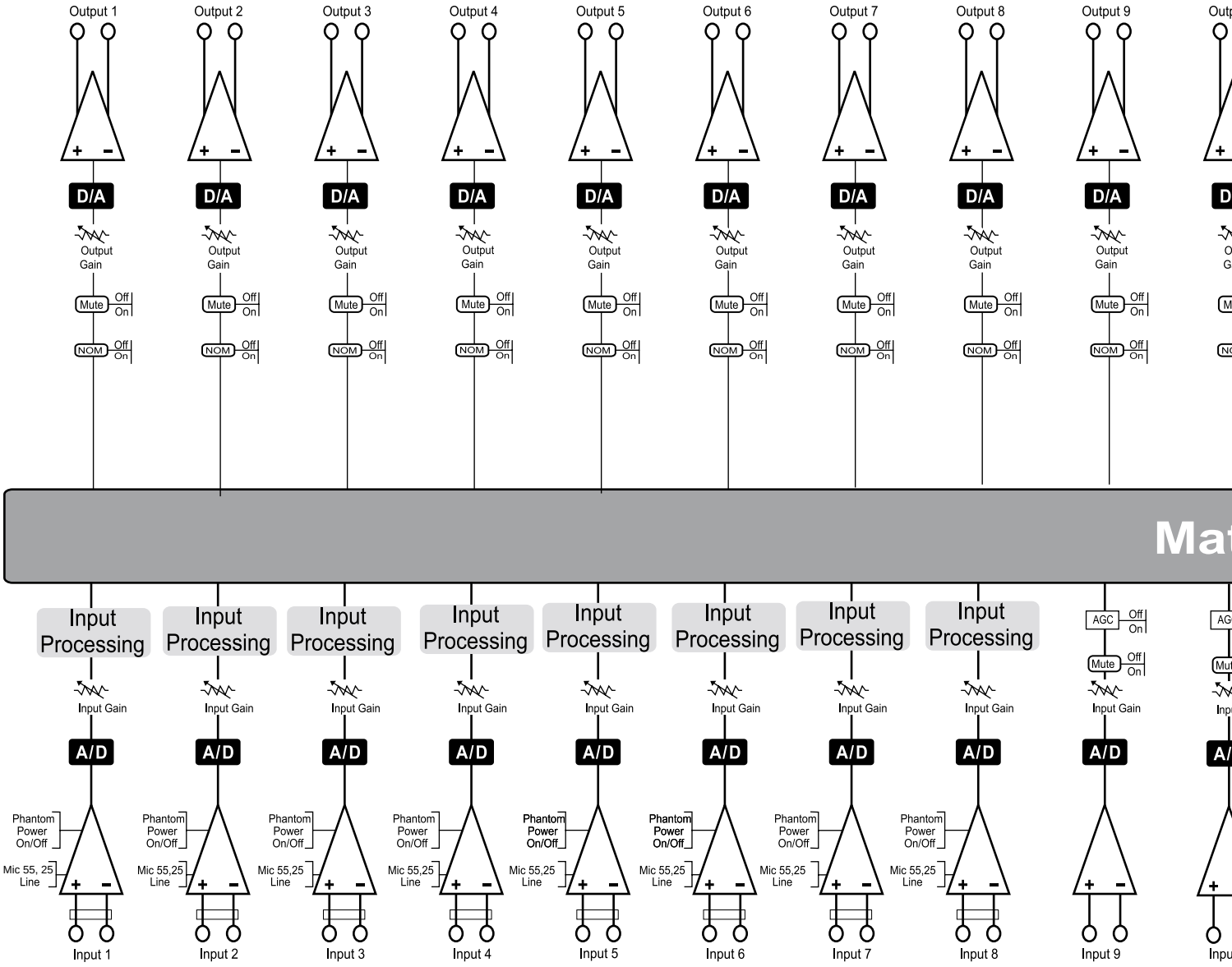
Macro Pro, a scripting language, enables sophisticated control without the need for an expensive external control system. This gives you real-time flexibility to meet a variety of audio reinforcement and room-combining requirements.

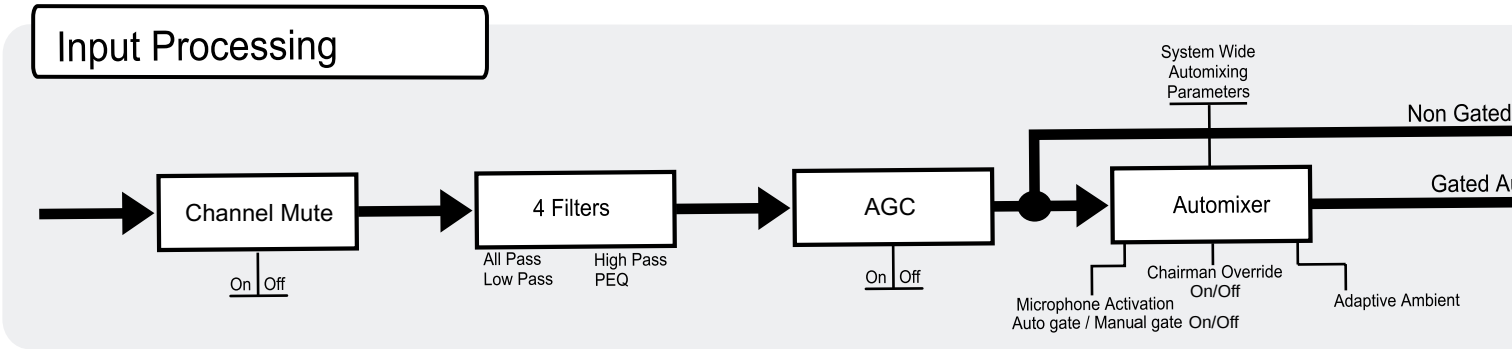
A digital audio and control bus allows up to eight PSR1212s to be connected and controlled as a single unit.

FEATURES/BENEFITS

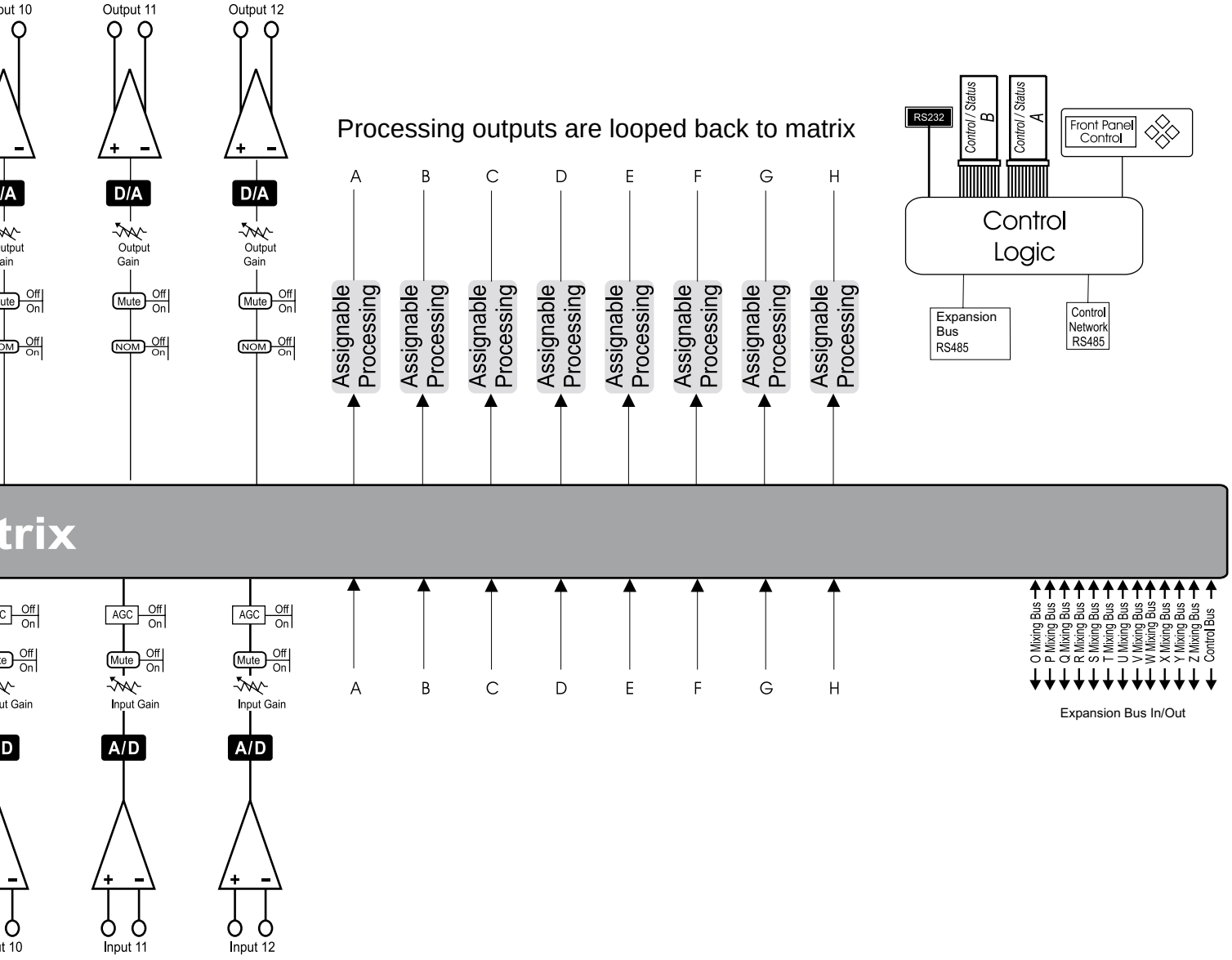
- 100 percent digital signal processing.
- 12 x 12 matrix with level control at the cross points.
- Twelve line output channels. All output levels are adjustable and can be muted.
- Eight audio processing buses that can be placed anywhere within the matrix mixer audio path.
- Eight-channel automatic microphone mixer with four line inputs. The mixer operates across linked units.
- Input gain, configurable audio processing, muting, and automatic mixer are programmable per input channel (inputs 1-8 only).
- Configurable audio processor with four filters on inputs 1-8.
- All interconnected devices can be accessed, controlled, and programmed via a single RS232 connection.
- Program, operate, and diagnose with a connected PC (direct or via modem) or other serial remote-control device.
- 32 programmable presets for instant configuration changes.
- Allows grouping of mics across four automatic mic mixers within a single PSR1212.
- Internal room combining capabilities.

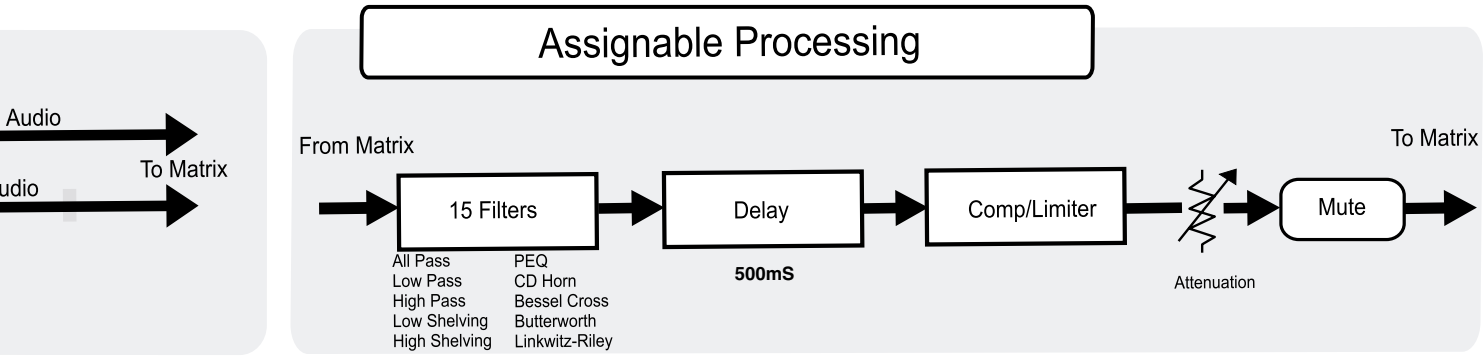
Gentner®
1.800.945.7730
1.801.975.7200





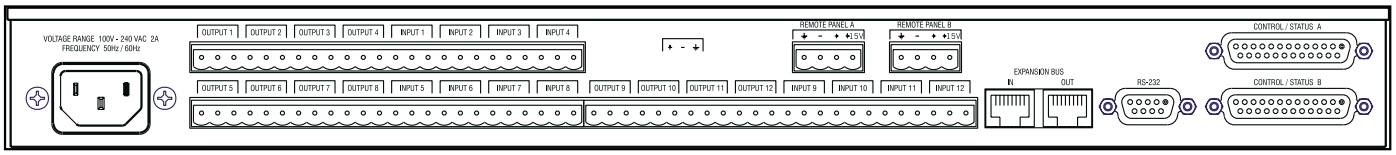
Gentner®
1.800.945.7730
1.801.975.7200


Output 10
Output 11
Output 12
D/A
Output Gain
Mute
Off
On
NOM
Processing outputs are looped back to matrix
A
B
C
D
E
F
G
H
Assignable Processing
RS232
Control / Status B
Control / Status A
Front Panel Control
Control Logic
Expansion Bus RS485
Control Network RS485
trix
AGC
Input Gain
A/D
Input 11
Input 12
O Mixing Bus
P Mixing Bus
Q Mixing Bus
R Mixing Bus
S Mixing Bus
T Mixing Bus
U Mixing Bus
V Mixing Bus
W Mixing Bus
X Mixing Bus
Y Mixing Bus
Z Mixing Bus
Control Bus
Expansion Bus In/Out


Audio
To Matrix
Assignable Processing
From Matrix
To Matrix
15 Filters
Delay
Comp/Limiter
Mute
All Pass
Low Pass
High Pass
Low Shelving
High Shelving
PEQ
CD Horn
Bessel Cross
Butterworth
Linkwitz-Riley
500mS
Attenuation

PSR1212

DIGITAL MATRIX MIXER WITH AUDIO PROCESSING



SPECIFICATIONS

G-Ware (setup/diagnostics software)

Dimensions (L/W/H):
48.3 x 4.45 x 25.4 cm

Weight:
4.5 kg dry
5.9 kg shipping

Power Requirements:
Auto-adjusting power module

INPUT RANGE:
100-240VAC; 50/60Hz

POWER CONSUMPTION:
30W, typical

95 BTU/Hr

PHANTOM POWER: 24V,
input selectable

Audio Performance
FREQUENCY RESPONSE: 20Hz to 20kHz ± .5dB

NOISE: (EIN 20Hz to 20kHz) -125dB

THD: <0.05%

SNR: >100dB

Automatic Mic/Line Inputs:
CONNECTOR: Removable terminal block; -55, -25, or 0dBu nominal adjustable, balanced, bridging
Impedance: 7kOhms

Non-Automatic Line Inputs:
CONNECTOR: Removable terminal block; 0dBu nominal adjustable, balanced, bridging
Impedance: > 20kOhms

Line Outputs:
CONNECTOR: Removable terminal block; 0dBm nominal level adjustable, balanced
Impedance: 50 Ohms

Other Connectors:
RS232: DB9 female (DCE)
9600/19,200/38,400/57,600/115,200 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

Fuse: 2 amp, 250VAC, slow blow type

Operating Temperature:
32 - 100°F / 0 - 38°C

Approvals: FCC Part 15, CSA NRTL/C, CE

AUDIO FUNCTIONS

Filters: All pass; low pass; high pass; low shelving; high shelving; PEQ; CD horn EQ; crossover; and Bessel, Butterworth, and Linkwitz-Riley crossovers; compressor/limiter; matrix mixer w/cross point level control; automatic gain control; and automatic microphone 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

Send this document to any fax machine with Gentner's Fax-On-Demand: 1.800.695.8110 Doc. #2004

Perfect Communication through Technology, Service, and Education.™

Gentner®
Gentner Communications Corporation
1825 Research Way
Salt Lake City, UT 84119 USA

1.800.945.7730
1.801.975.7200

Fax: 1.801.977.0087
www.gentner.com