

Advanced Modules

Input Modules*

MIC1S, MIC1X, MIC2S, MIC2X, BRG1R, MAX1R, BAL1S, SAX1R, TEL1S

Bogen's nine plug-in input modules support different signal-source requirements, including the ability to interface to balanced and unbalanced high- and low-level inputs, stereo or mono, telephone systems, and microphones.

MICROPHONE INPUTS (MIC1S, MIC1X)

Low-impedance, transformer-balanced microphone inputs



- Gain/Trim control
- Bass & Treble controls
- Noise gate w/Threshold & Duration control
- Limiter w/Threshold control
- 24V Phantom power
- Priority & Bus assignable
- Balanced, transformer-isolated
- Screw terminals (MIC1S); XLR connector (MIC1X)

MICROPHONE INPUTS (MIC2S, MIC2X)

Low-impedance, electronic-balanced microphone inputs



- Gain/Trim control
- Hi-Cut/Lo-Cut controls
- Enhance control
- Noise gate w/Threshold control
- Limiter w/Threshold control
- 24V Phantom power
- Priority & Bus assignable
- Screw terminals (MIC2S); XLR connector (MIC2X)

BRIDGING INPUT (BRG1R)

Daisy chain multiple amplifier inputs



- Gain/Trim control
- Ground isolated input to eliminate ground loop
- Input signal available at buffered output
- Priority assignable
- Variable ducking level when muted
- Fade back from mute
- Buffered output not muted
- Bus assignable
- RCA input and output connectors

MONO AUX INPUT (MAX1R)

Unbalanced mono input module



- Gain/Trim control
- Bass & Treble controls
- Gate feature mutes lower priority modules
- Mutable by higher priority modules
- Variable ducking level when muted
- Fade back from mute
- Bus assignable
- RCA connectors

STEREO AUX INPUT (SAX1R)

Unbalanced stereo module



- Gain/Trim control
- Bass & Treble controls
- Gate feature mutes lower priority modules
- Mutable by higher priority modules
- Variable ducking level when muted
- Fade back from mute
- Stereo-to-mono summing option
- Bus assignable
- RCA connectors

TELEPHONE INPUT (TEL1S)

Interfaces to telephone system's loop start/ground start trunks or paging ports



- Loop start or ground start trunk interfacing
- Dry loop interface to paging ports
- Audio-activated paging in dry loop
- Gain/Trim control; Noise gate & Limiter
- Mutes lower priority modules
- Mutable by higher priority modules
- Bus assignable & Transformer-isolated
- Screw terminal connections

BALANCED INPUT (BAL1S)

Stereo, balanced module (included with M300/M450/M600)



- Stereo, high-impedance, balanced inputs
- Professional-quality, low noise performance
- Mutable by higher priority modules
- Variable ducking level when muted
- Fade back from mute
- Screw terminal connections

Output Modules**

ANS1R, CMP1R, PEQ1R

Bogen's plug-in signal-processing output modules automatically insert themselves into the mix bus signal path leading to the power amplifier stage when installed. The ANS1R module is an ambient noise sensor that adjusts the level of a page announcement when changing ambient noise levels are a problem. The CMP1R module is a compressor/limiter that acts as a compressor to minimize the differences in level of all of the inputs on the mix bus, or acts as a limiter to keep overall output at a desired level. The PEQ1R is a 4-band equalizer that provides 2 bands of parametric equalization control with adjustments for filter bandwidth ('Q'), filter center frequency, and cut or boost as well as bass/treble controls.

AMBIENT NOISE SENSOR (ANS1R)



- Maximum Gain control
- Ramp Speed control
- Activity Threshold control
- Ambient mic input threshold control
- Stereo Aux input (summed mono)
- Aux level input control
- Defeatable
- Gradual fade back from mute
- Connect up to 4 sensor mics (1 included)
- Mutable Input (lowest priority only)

COMPRESSOR LIMITER (CMP1R)



- Compressor Ratio control
- Threshold control
- Make-up Gain control
- Bypass switch
- Unbalanced input
- Gradual fade back from mute
- Mutable Input (lowest priority only)

PARAMETRIC EQUALIZER (PEQ1R)



- 2 full parametric bands
- Frequency control
- 'Q' bandwidth control
- Gain control
- Bass and Treble control
- Unbalanced input
- Bypass switch
- Mutable input (lowest priority only)
- Gradual fade back from mute