

Input Modules

Models BAL2S,
BRG1R, LMM1S,
LMR1S, MAX1R,
MIC1S, MIC2S,
MIC1X, MIC2X,
SAX1R, TBL1S,
TEL1S, TNG1S



DESCRIPTION Bogen's advanced plug-in modules provide a wide range of functions to support a variety of applications. These modules support different signal-source requirements, including the ability to interface to balanced and unbalanced high- and low-level inputs, stereo or mono, telco systems, and microphones.

FEATURES

BALANCED (BAL2S)

Stereo, balanced input module

- Stereo, high-impedance, balanced inputs
- Professional-quality, low noise performance
- Selectable gain of 0 or 18 dB
- Mutable by higher priority modules
- Variable ducking level when muted
- Fade back from mute
- Screw terminal connections

BRIDGING (BRG1R)

Daisy chain multiple amplifiers input module

- Gain/Trim control
- Input signal available at buffered output
- Mute send & receive
- Variable ducking level when muted
- Fade back from mute
- 4 Priority levels
- Buffered output not mutable
- Bus assignable
- RCA input and output connectors

LINE/MIC (LMM1S, LMR1S)

LINE/MIC level input modules

- Gain control
- Bass & Treble controls
- Actively-balanced input
- LINE/MIC Attenuator switch
- Gating w/Threshold & Duration
- 24V Phantom power supply
- 4 Priority levels
- Bus assignable
- Built-in limiter w/ LED (LMR1S)
- Remote control volume option (LMR1S)
- Single-gang remote control panel included (LMR1S)
- Remote distance up to 2,000 Ft. (LMR1S)
- Screw terminal connectors

MICROPHONES (MIC1S, MIC1X)

Transformer-balanced, low-impedance microphone input modules

- Gain/Trim control
- Bass & Treble controls
- Noise gate w/Threshold & Duration
- Limiter w/Threshold control
- Limiter activity LED
- 24V Phantom power
- Mute send & receive
- 4 Priority levels
- Bus assignable
- Balanced, transformer-isolated
- Screw terminal (MIC1S); XLR connector (MIC1X) models

MICROPHONES (MIC2S, MIC2X)

Electronic-balanced, low-impedance microphone input modules

- Gain/Trim control
- High Cut/Low Cut controls
- Voice Enhancement control
- Noise gate w/Threshold control
- Limiter w/Threshold control
- 24V Phantom power
- Mute send & receive
- 4 Priority levels
- Bus assignable
- Electronically balanced
- Screw terminal (MIC2S); XLR connector (MIC2X) models

MONO, STEREO AUX (MAX1R, SAX1R)

Unbalanced input modules

- Gain/Trim control
- Bass & Treble controls
- Gating w/Threshold & Duration
- Mute send & receive
- Variable ducking level when muted/gated
- Fade back from mute/gate
- 4 Priority levels
- Bus assignable
- Stereo to mono summing option (SAX1R)
- RCA connectors

TRANSFORMER-BALANCED (TBL1S)

Transformer-balanced AUX input module

- Transformer-isolated line-level input
- Gain/Trim control
- Bass & Treble controls
- Gating w/Threshold & Duration
- Mute send & receive
- Variable ducking level when muted/gated
- Fade back from mute/gate
- 4 Priority levels
- Bus assignable
- Pluggable screw terminal connections

TELEPHONE (TEL1S)

Telephone interface input module

- Loop start or ground start trunk interfacing (requires external power supply)
- Dry loop interface to paging ports
- Audio-activated paging in dry loop
- Gain/Trim control
- Limiter
- Noise gate w/Threshold & Duration
- Mute send & receive
- 4 Priority levels
- Bus assignable
- Transformer-isolated
- Screw terminal connections

tone GENERATOR (TNG1S)

Multiple tone generator input module

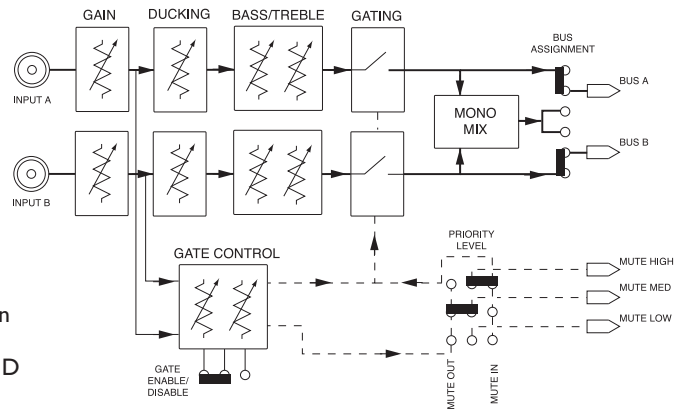
- Select 4 of 8 tones to trigger
- 512 Hz Burst/steady, slow whoop, siren, mechanical bell, Klaxon, night ringer, double chime, & doorbell tones
- Momentary & continuous playback modes
- Screw terminal trigger connections
- Level control
- Microprocessor-controlled operation
- Mute send & receive
- 4 Priority levels

BOGEN®



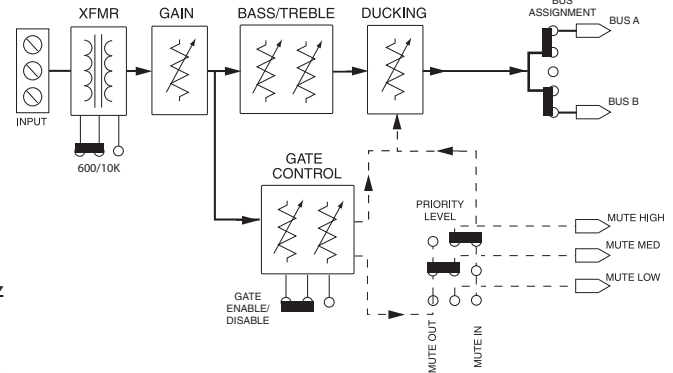
Stereo Aux Input Module (SAX1R)

Gain -20 dB to 6 dB
 Frequency Response +0/-3 dB, 5 Hz - 100 kHz
 S/N (20 Hz - 20 kHz) -100 dBV
 Distortion < 0.005%, 20 Hz - 20 kHz
 Input Impedance 50k ohms
 Tone ±10 dB @ 100 Hz & 10 kHz
 Ducking (level) -10 dB to -48 dB
 Gate Threshold 3 mV to 30 mV
 Gate Duration 0.5s to 5s
 Priority Four levels
 Controls Gain, Bass, Treble, Ducking, Gate Threshold, Gate Duration
 Connector RCA type
 Dimensions 1-3/8" W x 3-1/8" H x 3-1/2" D
 Weight 2.6 oz.



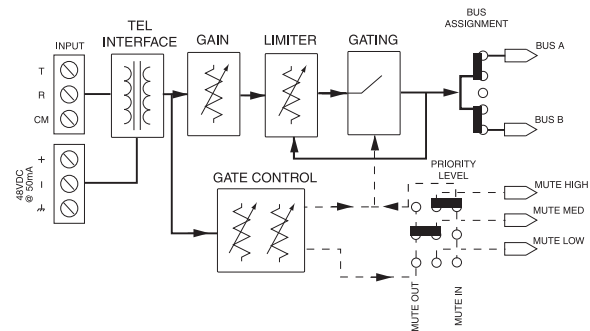
Transformer-Balanced Input Module (TBL1S)

Gain -11 dB to +19 dB
 Frequency Response 10 - 40 kHz (+0/-3 dB)
 S/N (20 Hz - 20 kHz) -75 dBV
 Distortion < 0.3%, 20 Hz - 20 kHz @ 1V
 Input Impedance 10k ohms/600 ohms (jumper selectable)
 Gate Threshold 5 mV to disable
 Gate Duration 0.5s to 5s
 Priority Four levels
 Duck Level -10 dB to -72 dB
 Tone +/- 10 dB @ 100 Hz & 10 kHz
 CMRR > 80 dB @ 1 kHz
 Controls Gain, Bass, Treble, Duck, Gate Threshold, Gate Duration
 Connector Pluggable Euro Screw Type
 Dimensions 1-3/8" W x 3-1/8" H x 3-1/2" D
 Weight 3.8 oz.



Telephone Input Module (TEL1S)

Gain 0 dB to 30 dB
 Frequency Response +0/-3 dB, 20 Hz - 20 kHz
 S/N (20 Hz - 20 kHz) -90 dBV @ 30 dB of gain, -120 dBV EIN
 Distortion < 0.1%, 20 Hz - 20 kHz
 Input Impedance Dry loop 30k ohms, Wet loop 1k ohms
 Limit (threshold) -10 dBV to off
 Gate Threshold 3 mV to 30 mV
 Gate Duration 0.5s to 5s
 Priority Four levels
 External Power 48V DC (for talk battery)
 CMRR > 80 dB @ 1 kHz
 Controls Gain, Limit, Gate Threshold, Gate Duration
 Connector 6-position barrier strip
 Dimensions 1-3/8" W x 3-1/8" H x 3-1/2" D
 Weight 2.8 oz.



ARCHITECT & ENGINEER SPECIFICATIONS (cont.)

Mono Aux Input Module (MAX1R) The MAX1R module shall be a mono, high-impedance, unbalanced input module. The module shall have an RCA jack as its input connector. The module shall have a gain/trim control that will allow the gain to be adjusted from -20 dB to +6 dB relative to 0 dB nominal gain. It shall have the ability to mute lower priority modules and be muted by higher priority modules. The module shall be able to assume any of 4 priority levels. It shall have a continuously variable ducking control that will enable attenuation of the input signal from a minimum of 10 dB to a maximum of 48 dB relative to the normal unmuted condition and a gradual fade back from mute when the mute or gate control is deactivated. The module shall have a VOX/gating circuit to control muting of lower priority modules and its internal gating circuit, with controls for threshold and duration. The module shall have bass and treble controls with cut or boost of 10 dB at 100 Hz and 10 kHz, respectively. The module's output shall be assignable to either or both of two mixing buses.

Microphone Input Module (MIC1S) The MIC1S module shall have a transformer-isolated, balanced input with screw terminal connector. It shall interface with low-impedance dynamic microphones. It shall also interface with electret condenser microphones and shall have an internal 24V DC phantom power supply to provide the bias supply that is enabled by a PCB jumper. The module shall have a gain control that will allow the gain to be adjusted from 28 dB to 62 dB. It shall have the ability to mute lower priority modules and be muted by higher priority modules. The module shall be able to assume any of 4 priority levels. The module shall have a VOX/gating circuit to control muting of lower priority modules and its internal gating circuit with controls for threshold and duration. It shall have a built-in limiter, with a threshold control, to limit the maximum output level of the module. A front panel LED will indicate limiter activity. The module shall have bass and treble controls with cut or boost of 10 dB at 100 Hz and 10 kHz, respectively. The module's output shall be assignable to either or both of two mixing buses.

Microphone Input Module (MIC1X) The MIC1X module shall have a transformer-isolated, balanced input with XLR connector. It shall interface with low-impedance dynamic microphones. It shall also interface with electret condenser microphones and shall have an internal 24V DC phantom power supply to provide the bias supply that is enabled by a PCB jumper. The module shall have a gain control that will allow the gain to be adjusted from 28 dB to 62 dB. It shall have the ability to mute lower priority modules and be muted by higher priority modules. The module shall be able to assume any of 4 priority levels. The module shall have a VOX/gating circuit to control muting of lower priority modules and its internal gating circuit with controls for threshold and duration. It shall have a built-in limiter, with a threshold control, to limit the maximum output level of the module. A front panel LED will indicate limiter activity. The module shall have bass and treble controls with cut or boost of 10 dB at 100 Hz and 10 kHz, respectively. The module's output shall be assignable to either or both of two mixing buses.

Microphone Input Module (MIC2S) The MIC2S module shall have an electronically-balanced input with screw terminal connector. It shall interface with low-impedance dynamic microphones. It shall also interface with electret condenser microphones and shall have an internal 24V DC phantom power supply to provide the bias supply that is enabled by a PCB jumper. The module shall have a gain control that will allow the gain to be adjusted from 18 dB to 62 dB. It shall have the ability to mute lower priority modules and be muted by higher priority modules. The module shall be able to assume any of 4 priority levels. The module shall have a VOX/gating circuit to control muting of lower priority modules and its internal gating circuit with a threshold control. It shall have a built-in limiter, with a threshold control, to limit the maximum output level of the module. The module shall have bass and treble controls with cut only of 10 dB at 100 Hz and 3 kHz, respectively. The module shall have a voice enhancement control for improving voice intelligibility. The module's output shall be assignable to either or both of two mixing buses.

Microphone Input Module (MIC2X) The MIC2X module shall have an electronically-balanced input with XLR connector. It shall interface with low-impedance dynamic microphones. It shall also interface with electret condenser microphones and shall have an internal 24V DC phantom power supply to provide the bias supply that is enabled by a PCB jumper. The module shall have a gain control that will allow the gain to be adjusted from 18 dB to 62 dB. It shall have the ability to mute lower priority modules and be muted by higher priority modules. The module shall be able to assume any of 4 priority levels. The module shall have a VOX/gating circuit to control muting of lower priority modules and its internal gating circuit with a threshold control. It shall have a built-in limiter, with a threshold control, to limit the maximum output level of the module. The module shall have bass and treble controls with cut only of 10 dB at 100 Hz and 3 kHz, respectively. The module shall have a voice enhancement control for improving voice intelligibility. The module's output shall be assignable to either or both of two mixing buses.

Stereo AUX Input Module (SAX1R) The SAX1R module shall be a stereo, high-impedance, unbalanced input module. The module shall have two RCA jacks for its input connectors. The module shall have a gain/trim control that will allow the gain to be adjusted from -20 dB to +6 dB relative to 0 dB nominal gain. It shall have the ability to mute lower priority modules and be muted by higher priority modules. The module shall be able to assume any of 4 priority levels. It shall have a continuously variable ducking control that will enable attenuation of the input signal from a minimum of 10 dB to a maximum of 48 dB relative to the normal unmuted condition and a gradual fade back from mute when the mute or gate control is deactivated. The module shall have a VOX/gating circuit to control muting of lower priority modules and its internal gating circuit, with controls for threshold and duration. The module shall have bass and treble controls with cut or boost of 10 dB at 100 Hz and 10 kHz, respectively. The module's outputs shall be independently assignable to each of two mixing buses. The module shall allow stereo sources to be summed and sent mono to either or both of two mixing buses.

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