

Mix it - Group it - Combine it - Blend it - Sum it.

The **X.Sum** design takes you beyond the simple "hard-left" or "hard-right" summing box, and gives you 16 stereo input channels with level, pan, mix assign and mono select.



If you need more than simple summing.

The **X.Sum** is a 32 x 4 analog line mixer that can be used for external DAW summing or as a line mixer for effects, external pres, synths, or any line signal. Any combination of the 16 stereo channels can be assigned to either the main stereo Mix output or the stereo Mix-B output.



The In's & Out's

All audio inputs and outputs are active-balanced and available on TRS connectors. Connect the **X.Sum** to virtually any line level source: balanced, unbalanced, transformer, or transformer-less. The **X.Sum** has high headroom that will handle balanced signals up to +28dBu.

Use the mix outputs of the **X.Sum** to get a "Neutral & Clean" sound or connect your own preamps to the pre-fader outputs on the external breakout box to add "Color & Warmth" to your mix.



Features

16 Stereo Balanced Line Inputs

- Stereo level control.
- Pan/balance control.
- Mix assign switch that routes to either the stereo main mix or stereo Mix-B.
- Mono Switch.
- Active-Balanced TRS inputs.

Master Section

- Master level control.
- Stereo/mono switch.
- Monitor level provides adjustment to the headphone jack and Mix-B output.
- Active-balanced TRS stereo outputs.
- Pre-fader outputs may be used to connect monitor controller or external preamps.

Specifications

Frequency Response

3Hz-54kHz (+0/-5dB)

THD+n (Output +24dBu)

.0024%

Noise (22Hz-22kHz)

-102dBu (Residual noise)
-87dBu (16 channels routed, faders off)

Maximum Input Level

+28dBu

Maximum Output Level

+28dBu

Input Impedance

30K Ohms (Balanced)
15K Ohms (Unbalanced)

Output Impedance

60 Ohms

Dimensions (Mixer)

WxHxD=1.75" x 19" x 10.75"
(44mm x 483mm x 273mm)

Dimensions (Power Supply)

WxHxD=4.6" x 2.75" x 7.3"
(117mm x 70mm x 185mm)

Shipping Weight (Mixer & PS)

15 Lbs (6.8kg)

The **Mix** switch assigns the input channel to the left/right master outputs. When this switch is in the out position the channel is assigned to Mix-B outputs.

The **0dB** calibrate mark is the "unity gain" setting when the X.Sum is being used exclusively for DAW summing.

The **Master** control adjusts the level to the Mix-A outputs.

This outer knob is the **Pan/Balance** control and places the channel anywhere in the stereo left/right perspective.

This inner knob is the **Input Level** control that simultaneously and equally adjusts the left and right signals.

The **Mono** switch on the input channel sums the left and right signals together creating a mono composite.

The **Mono** switch on the master section combines left/right signals to the main mix.

The **Monitor** control adjusts the level to the headphone jack and the Mix-B outputs on the breakout box.

The **Mix-B** switch changes the source and the function of the Monitor control.

Standard 1/4" stereo phone jack will operate with any impedance headphone.



The **Multi-function I/O** connector is used to connect the Breakout Box (shown at left) or link up to three additional X.Sum's.

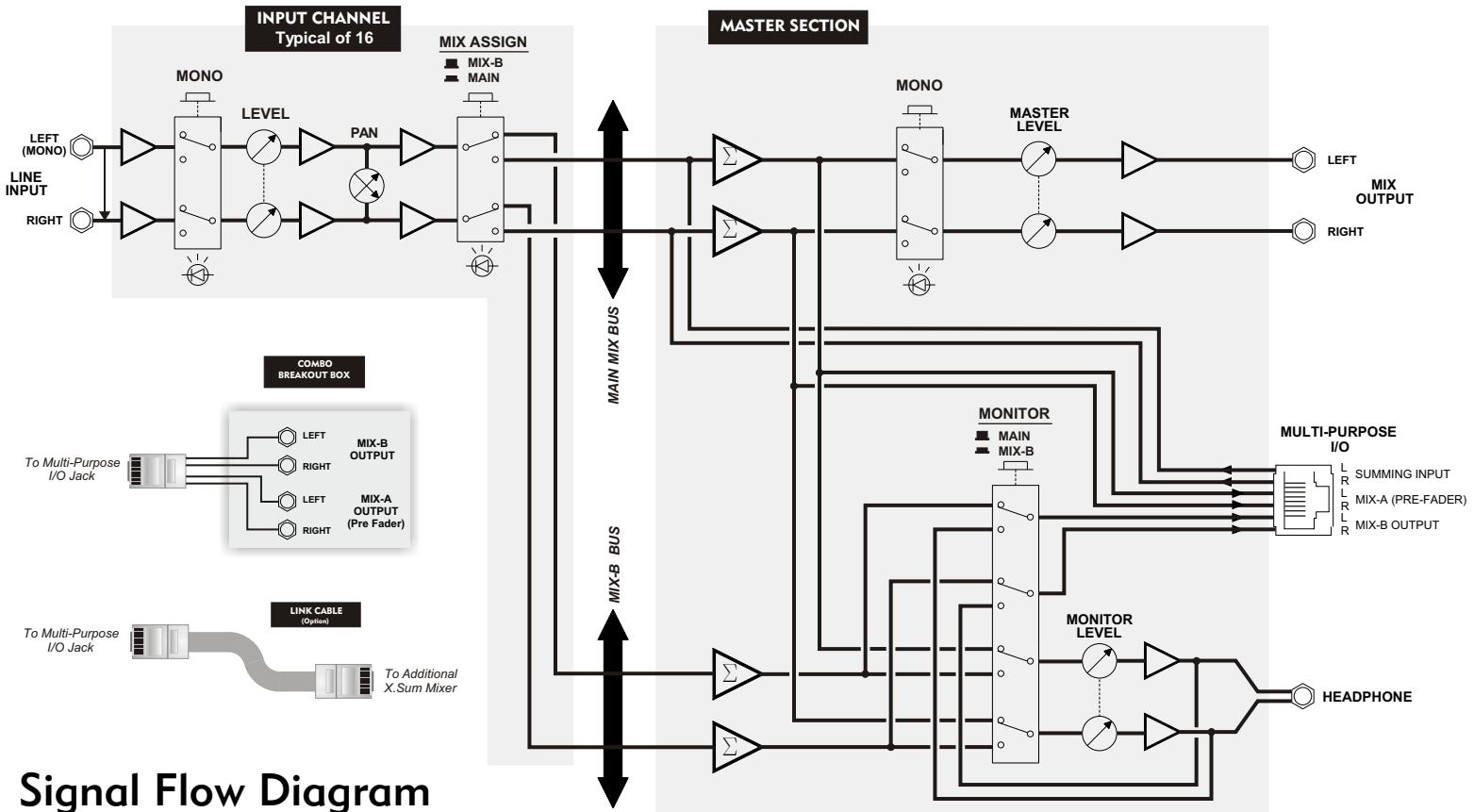


Stereo Active-balanced line inputs can handle levels up to +28dBu.

The **Mix-B Outputs** are adjusted with the Monitor control on the front panel.

The **Mix-A (Pre-Fader)** outputs bypass the master circuitry of the X.Sum. Use these outputs to connect a monitor controller or to connect your own external preamps for color and warmth.

The active-balanced **Mix Outputs** are adjusted with the Master control and can be used anywhere a stereo signal is needed.



Signal Flow Diagram