

# PreSonus® STUDIOLIVE 32SX

Compact 32-channel/26-bus digital mixer with AVB networking and dual-core FLEX DSP Engine



## Key Features

- Powered by the new dual-core PreSonus FLEX DSP Engine to provide the most processing of any digital mixer in its class
- 40 input-channel digital mixer with 25 touch-sensitive motorized faders
- 26 mix buses including 16 individually configurable FlexMixes (aux, matrix, or subgroup options)
- 286 simultaneous processors with State Space-Modeled Fat Channel compressor and EQ plug-ins available on every input channel and output bus
- FLEX FX multi-effects processor with 4 slots to load legendary reverb emulations and delays with 4 dedicated effects buses

## Applications

- Installed Sound
- Live Touring
- Mobile Applications
- House of Worship
- Theatre
- Broadcast
- Corporate
- Studio

Power meets efficiency.



Loaded with the processing power, studio-grade audio quality, and flexible routing options that made StudioLive mixers famous, the StudioLive 32SX is the perfect compact 32-channel digital mixing solution. Powered by the dual-core PreSonus FLEX DSP Engine, the StudioLive 32SX is equipped with 40 mixing channels, 26 mix buses, and 286 simultaneous processors – including 4 stereo reverberation systems, and Fat Channel plug-in models on every input and mix. The low profile of the StudioLive 32SX makes it an ideal solution for any mixing environment where desk real estate is at

a premium. The split-fader workflow lets you manage 32 input channels in two fader layers, while providing access to your mix outputs on eight additional faders. With 32 XMAX mic preamps and 22 mix outputs, the StudioLive 32SX packs connectivity and power into an efficient use of space.

As the centerpiece of a complete ecosystem of AVB networking products, the StudioLive 32SX allows you to create a customizable, scalable system. Connect NSB-series stage boxes to add remote analog inputs and outputs wherever they're required, shortening analog cable runs and streamlining large installations. Add EarMix 16M personal monitor mixers to give your musicians their own customizable 16-channel monitor mix. Multiple StudioLive Series III digital mixers can be networked together, allowing you to route audio to and from any device on the audio network.

Reconfigure your mix without unplugging a cable.

StudioLive Series III digital mixers let you patch any analog input or digital return (AVB, USB, or SD Card) to any channel to customize your mix configuration. This flexible feature also allows you to freely route audio to your AVB network and record any of the inputs and FlexMixes on the 64 USB sends. Digital Patching also makes it easy to quickly route to and source from your AVB audio network when using the StudioLive 32SX as part of a complete networked audio system.

Each of the 16 FlexMixes can be configured to function as an aux bus, a subgroup, or a matrix mix. Matrix mixes support blending any bus with any input channel for ultimate control. Four designated effects buses plus four dedicated subgroups make a total of 26 mix buses in addition to an independent solo bus. 24 DCAs are also provided to more easily control groups of channels. Bus configuration and routing is stored in a master Project that can be locked out from any changes, keeping critical functions safe.

The best digital mixer for recording  
- with or without a computer.

With 128 (64x64) channels of recording over USB and an integrated 34-track SD recorder, the StudioLive 32SX provides redundant recording options and an automated Virtual Soundcheck mode. Record every input channel plus any stereo mix to USB as well as to an SD Card. StudioLive mix scenes can be stored with your recordings to speed up Virtual Soundchecks. 25 touch-sensitive motorized faders can be used to control Studio One, Logic, or Pro Tools with optimized control modes for each.

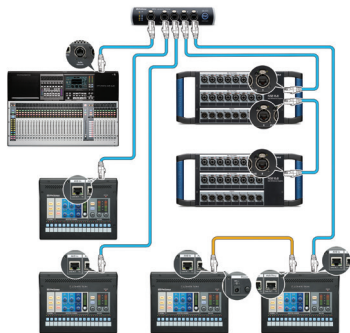
Fat Channel plug-ins bring your mix to life for stage or studio.



The new fixed input Fat Channel on the StudioLive 32SX digital mixer keeps critical parameters like input trim and compressor threshold beneath your fingertips, while a 7-inch Touch Display provides instant access to every EQ and dynamics processing parameter. The ten

included vintage EQ and classic compressor Fat Channel plug-in models can be inserted on every input and bus. An additional 15 models are available to provide a host of new signal processing options.

A complete networked solution.



The StudioLive Series III ecosystem of networked products are at the forefront of AVB networking technology. Designed to complement each other, the ecosystem is easily expanded and quickly configured. The StudioLive 32SX is your command center to create the ultimate AVB network. Route audio to EarMix 16M personal monitor mixers. Control the gain staging and add remote inputs and outputs using NSB-series stage boxes and other StudioLive Series III digital mixers. With powerful plug-in processing, advanced recording features, and a full complement of analog I/O in a compact chassis, the StudioLive 32SX is an ideal centerpiece for sound systems of any size.

### Optional Accessories (Sold Separately)

The following optional accessories are available:



**NSB-series stage boxes.** The NSB 8.8 and NSB 16.8 offers 8 or 16 locking combo mic/line inputs with remote-controlled XMAX preamps that include gain compensation for shared input scenarios. Eight outputs employ locking XLR jacks. A built-in 2-port AVB switch lets you daisy-chain multiple units.



**EarMix 16M Personal Monitor Mixer.** The PreSonus EarMix 16M personal monitor mixer provides 16 input channels over AVB each with 3-band EQ and limiter. Power-over-Ethernet (PoE) allows for easy deployment.



**SW5E AVB Switch.** PreSonus' SW5E AVB switch supplies five AVB ports with secure locking XLR Ethernet jacks. Four PoE ports provide power for EarMix 16M personal monitor mixer and other PoE devices. Network Link/Activity indicators help you ensure that network data is flowing properly.



**StudioLive Shelf Mount.** Up to three StudioLive Shelf Mounts can be attached to a StudioLive 64S, allowing you to use UC Surface running on your favorite Android™ tablet or iPad® as a second, third, or fourth screen.

### Technical Specifications

Microphone Preamplifier	
Type	32 XLR Female, balanced (Combo connectors)
Frequency Response to Main Output (at unity gain)	20-20 kHz, ±0.5 dBu
Input Impedance	1 kΩ
THD to Main Output	<0.005%, +4 dBu, 20-20 kHz, unity gain, unwt'd
S/N Ratio to Main Output (Ref = +4 dB, 20 kHz BW, unity gain, A-wtd)	94 dB
Common Mode Rejection Ratio (1 kHz at unity gain)	65 dB
Gain Control Range (±1 dB)	0 dB to +60 dB
Maximum Input Level (unity gain)	+12 dBu
Phantom Power (±2 VDC)	48 VDC, switchable per channel
Line Inputs	
Type	16 ¼" TRS Female, balanced (Combo connectors)
Frequency Response to Main Output (at unity gain)	20-20 kHz, ±0.5 dBu
Input Impedance	10 kΩ
THD to Main Output	<0.005%, +4 dBu, 20-20 kHz, unity gain, unwt'd
S/N Ratio to Main Output (Ref = +4 dB, 20 kHz BW, unity gain, A-wtd)	94 dB
Maximum Input Level	+18 dBu
Tape Inputs	
Type	RCA Female, unbalanced (stereo pair)
Maximum Input Level	+12 dBu, ±0.5 dBu
FlexMix Outputs	
Type	12 (6 XLRM, 4 ¼" TRS, balanced)
Maximum Output Level	+24 dBu, ±0.5 dBu
Output Impedance	100Ω
Subgroup Outputs	
Type	4 ¼" TRS, balanced
Maximum Output Level	+24 dBu, ±0.5 dBu
Output Impedance	100Ω

Main Outputs	
Type	3 XLR Male, balanced (Stereo Left/Right, Main Mono/Center)
Maximum Output Level	+24 dBu, $\pm 0.5$ dBu
Output Impedance	100 $\Omega$
Monitor Outputs	
Type	¼" TRS Female, balanced (stereo pair)
Maximum Output Level	+18 dBu, $\pm 0.5$ dBu
Output Impedance	100 $\Omega$
Tape Outputs	
Type	RCA Female, unbalanced (stereo pair)
Maximum Output Level	+18 dBu, $\pm 0.5$ dBu
Output Impedance	100 $\Omega$
Headphone Output	
Type	¼" TRS Female, active stereo
Maximum Output	100 mW/ch. @ 60 $\Omega$ load
Frequency Response	20 Hz – 20 kHz ( $\pm 0.5$ dB)
THD+N	0.01%, 1 kHz, max gain, 20 Hz BW, unwdt
S/N Ratio	96 dB, 1 kHz, max gain, 20 Hz BW, unwdt
System Crosstalk	
Input to Output	-90 dB (Ref = +4 dBu, 20 Hz-20 kHz, unwdt)
Adjacent Channels	-87 dB (Ref = +4 dBu, 20 Hz-20 kHz, unwdt)
Digital Audio and Control	
ADC Dynamic Range	115 dB (A-wtd, 48 kHz)
DAC Dynamic Range	115 dB (A-wtd, 48 kHz)
USB Recording Port	USB 2.0, Type-B
AES/EBU Output	XLR Male
Network Control Port	RJ-45
AVB Audio Network Port	Locking XLR Ethernet
Internal Processing	32-bit, floating point
DSP Engine	Quad-core FLEX DSP
Sampling Rate	44.1 and 48 kHz
A/D/A Bit Depth	24
Reference Level for 0 dBFS	+18 dBu
Total System Latency	1.9 ms (local routing, analog in-analog out, all processing active)
Jitter	<20 ps RMS (20 Hz - 20 kHz)
Jitter Attenuation	>60 dB (1 ns in, 1 ps out)
Power / Environmental	
Connector	IEC
Input-Voltage Range	90 to 230 VAC ( $\pm 10\%$ )
Power Requirements (continuous)	85W
Recommended Ambient Operating Temperature	0° to 40° Celsius / 32° to 104° Fahrenheit
Physical	
Height	6.51" (165.36 mm)
Width	25.98" (659.81 mm)
Depth	22.97" (583.48 mm)
Weight	30 lbs. (13.6 kg)

