

# PreSonus® STUDIOLIVE 64S

64-channel/43-bus digital mixer with AVB networking and quad-core FLEX DSP Engine



## Key Features

- Powered by the new quad-core PreSonus FLEX DSP Engine to provide the most processing of any digital mixer in its class
- 76 input-channel digital mixer with 33 touch-sensitive motorized faders
- 43 mix buses including Main Mono/Center bus with per-channel level send and Center Divergence control
- 526 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 8 slots to load legendary reverb emulations and delays with 8 dedicated effects buses

## Applications

- Installed Sound
- Live Touring
- House of Worship
- Theatre
- Broadcast
- Studio

The small format mixer with large format power.



The StudioLive 64S is a 64-channel mixer that brings the power of a large format console to small format digital mixing. Powered by the new quad-core PreSonus FLEX DSP Engine, the StudioLive 64S digital mixer is equipped with 76 mixing channels, 43 mix buses, and 526 simultaneous processors—including 8 stereo reverberation systems, and Fat Channel plug-in models on every input channel and mix bus.

As the centerpiece of a complete ecosystem of AVB networking products, the StudioLive 64S allows you to create a customizable, scalable system. Connect NSB-series stage boxes to add remote analog inputs and

outputs wherever they're required and complete your 64-channel, 32-bus StudioLive 64S. 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 64S as part of a complete networked audio system.

Each of the 32 FlexMixes can be configured to function as an aux bus, a subgroup, or a matrix mix. Eight designated effects buses plus both stereo and mono main buses make a total of 43 mix buses in addition to an independent solo bus. 24 DCAs are also provided to more easily control groups of channels. The independent Main Mono bus can be configured with individual channel sends to feed a subwoofer or as the center channel in an LCR system with a Center Divergence control on each channel to more precisely place pan placement.

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

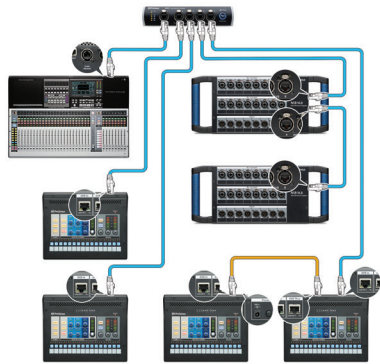
With 128 (64x64) channels of recording over USB and an integrated 34-track SD recorder, the StudioLive 64S provides redundant recording options and an automated Virtual Soundcheck mode. Record any combination of channels, FlexMixes, and the main stereo mix to USB as well as to an SD Card. StudioLive mix scenes can be stored with your recordings to speed up Virtual Soundchecks. 33 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 dynamic Fat Channel on the StudioLive 64S digital mixer puts critical EQ and dynamics processing beneath your fingertips while giving you fast access to every 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 64S is your command center to create the ultimate AVB network. Route audio to EarMix 16M personal monitor mixers. Control the gain staging and add up to 64 inputs using NSB-series stage boxes and other StudioLive Series III digital mixers. With powerful plug-in processing, a plethora of mix buses, and integrated networking onboard, the StudioLive 64S brings the large format mixing experience to the compact desktop digital mixer.

### 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	32 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	16 XLR Male, 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, ±0.5 dBu
Output Impedance	100Ω
Monitor Outputs	
Type	¼" TRS Female, balanced (stereo pair)
Maximum Output Level	+18 dBu, ±0.5 dBu
Output Impedance	100Ω

### 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, unwt'd
S/N Ratio	96 dB, 1 kHz, max gain, 20 Hz BW, unwt'd

### System Crosstalk

Input to Output	-90 dB (Ref = +4 dBu, 20 Hz-20 kHz, unwt'd)
Adjacent Channels	-87 dB (Ref = +4 dBu, 20 Hz-20 kHz, unwt'd)

### 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
Bluetooth™ Input	4.1, stereo
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	32.37" (822.21 mm)
Depth	22.97" (583.48 mm)
Weight	37.2 lbs. (16.9 kg)

