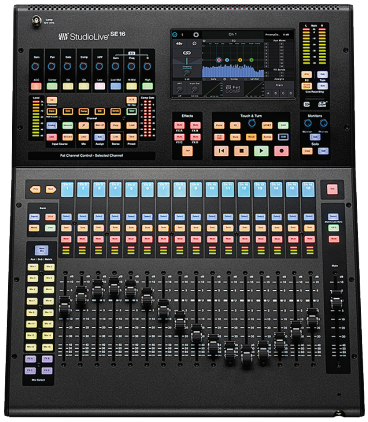
StudioLive® SE 16

40-channel | 26 mix bus digital console with integrated recording interface and 17 recallable XMAX™ mix preamps



Key Features

- Portable, rack-mountable, and flexible 40-channel digital console available with 26 mix buses, integrated recording, advanced audio networking, and a complete professional software suite.
- Flexible onboard 16 mic/line inputs with recallable XMAX preamps, 10 mix outputs, and dedicated Main LR outputs plus a Mono sum output.
- Take charge of your mix with 16 FlexMixes (aux mixes, subgroups, or matrix mixes), 4 dedicated FX mixes, 4 dedicated subgroups, and 24 DCA Groups.
- Milan-certified AVB audio networking ecosystem makes it easy to connect PreSonus NSB stage boxes, EarMix 16M personal monitor mixers, other Studiolive Series III mixers, and AVB-D16 Dante bridge.
- Continuously bidirectional 64x64 USB 2.0 interface with deep integration and included PreSonus Capture multitracking software with automated Virtual Soundcheck.
- 7 State-Space modeled EQ and 8 vintage-inspired compressors options available on every input and bus.

Applications

- Live Performance
- Installed Sound
- House of Worship
- Studio Recording
- Touring
- Corporate
- Broadcast
- Theater

Small digital mixer. Big power.

A 40-channel powerhouse packed inside a portable, rack-mountable frame, the **StudioLive SE 16** is a compact digital mixer that can easily be expanded from 16- to 36-input applications with the click of an Ethernet cable. Featuring 16 studio-grade, fully recallable, XMAX-R preamps and vintage-style EQ and compression options on every channel and bus, the StudioLive SE 16 makes your mixes sound better, faster. Managing large channel counts has never been easier thanks to 16 FlexMixes that can be configured as subgroups, auxes, or matrix mixes on a per mix basis. Matrix mixes include all 40 input channels and every bus making it easy to create the perfect front- and side-fill mixes for large venues or producer mixes for broadcast applications. You also get 24 DCA groups, 4 dedicated subgroup mixes, and 4 FX mixes, each with a stereo return and dedicated processing with lush reverbs and delays.

When you're ready to integrate backing tracks, record your show, or mix your next album, the StudioLive SE 16 has you covered with an integrated, continuously bidirectional 64x64 USB 2.0 audio interface and onboard 34x34 SD recorder plus a complete suite of integrated software that features both Capture multitracking and virtual soundcheck software as well as a perpetual license of Studio One Pro. Each channel can easily switch between analog, USB, SD, and AVB sources, making integrating your analog and digital gear easier than ever before.

More than a mixer, StudioLive SE 16 is part of a complete ecosystem of hardware and software. Remotely control your mixer or dial in an Offline mix with Universal Control from your computer or tablet. Launch PreSonus Metro and you can control your mixer over the internet from anywhere in the world with real-time audio monitoring. Built-in Milan-certified AVB audio networking makes it easy to integrate with stage boxes, personal monitor mixers, switches, and powerful accessories like the AVB-D16 AVB-to-Dante bridge that lets you add 16x16 Dante networking when you need it.

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

The dynamic Fat Channel on the StudioLive SE 16 digital mixer puts critical EQ and dynamics processing beneath your fingertips while giving you fast access to every parameter. The 21 included vintage EQ and classic compressor Fat Channel plug-in models can be inserted on every input and bus.

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Technical specifications

Microphone Preamplifier	
Type	16 XLR Female, balanced (8 XLRF, 8 Combo)
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, unwtd
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	(8) 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, unwtd
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

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, ±0.5 dBu
Output Impedance	100Ω

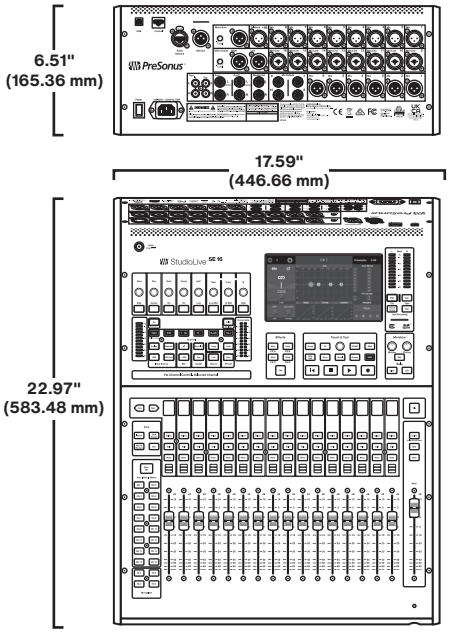
Headphone Output	
Type	¼" TRS Female, active stereo
Maximum Output	100 mW/ch. @ 60Ω load
Frequency Response	20 Hz – 20 kHz (± 0.5 dB)
THD+N	0.01%, 1 kHz, max gain, 20 Hz BW, unwtd
S/N Ratio	96 dB, 1 kHz, max gain, 20 Hz BW, unwtd

System Crosstalk	
Input to Output	-90 dB (Ref = +4 dBu, 20 Hz-20 kHz, unwtd)
Adjacent Channels	-87 dB (Ref = +4 dBu, 20 Hz-20 kHz, unwtd)

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)
Display	7” TFT LCD Touch Display

Power / Environmental	
Connector	IEC
Input-Voltage Range	90 to 230 VAC (±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	17.59" (446.66 mm)
Depth	22.97" (583.48 mm)
Weight	23.15 lbs. (10.5 kg)
Display Size	6.07”(W) x 3.38”(H) 154.08 mm(W) x 85.92 mm(H)



Optional Accessories (Sold Separately)

The following optional accessories are available:

- **AVB-D16 16x16 AVB-to-Dante Bridge:** The PreSonus® AVB-D16 is the first plug-and-play endpoint that bridges AVB and Dante® networks. Send and receive up to 16 audio channels between an AVB and Dante network with one simple device, making it the perfect solution to connect your StudioLive® Series III AVB ecosystem to your favorite Dante-equipped products.
- **SW5E AVB Switch:** PreSonus’ SW5E AVB switch supplies five AVB ports with secure locking XLR Ethernet jacks. Four PoE ports provide power for EarMix SE 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.
- **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 SE 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.
- **StudioLive® Series III SE Rack Mixers Rackmount Digital Mixing System With Integrated Recording:** The StudioLive Series III SE rack mixers are perfect to use alongside your StudioLive Series III SE console/recorder, serving as either a simple stage box or a combination stage box and monitor mixer. Loaded with 32, 24, or 16 high-headroom XMAX™ microphone preamplifiers, a built-in multitrack USB recording and playback interface, powerful Fat Channel signal processing, high quality effects, extensive routing, stereo SD recording, and more.