

# Avid VENUE | S6L System Specifications

The next stage in live sound



CONTROL SURFACES	S6L-48D	S6L-32D	S6L-24D	S6L-24C	S6L-16C
12-inch daylight-visible touchscreens	1 Master Touchscreen, 5 Channel Touch Modules	1 Master Touchscreen, 3 Channel Touch Modules	1 Master Touchscreen, 2 Channel Touch Modules	1 Master Touchscreen	None (requires user-provided external touchscreen)
Faders	48 + 2	32 + 2	24 + 2	24 + 2	16 + 2
Knob Modules with high-resolution OLEDs and tri-color function indicators	160 assignable knobs across 5 Channel Knob Modules	96 assignable knobs across 3 Channel Knob Modules	64 assignable knobs across 2 Channel Knob Modules	32 assignable knobs across 1 Channel Knob Module	32 assignable knobs across 1 Channel Knob Module
Master Live Module	Graphic TFTs with soft buttons; Touch and Turn assignable encoder; 2 assignable faders; monitoring, layout and snapshot controls; transport controls and function buttons				
Metering	30-segment meters per channel, with pre- and post-fade metering options; Nominal indicator, Expander/Gate status and Compressor/Limiter gain reduction meters				
Analog inputs	8 XLR mic/line inputs with 48V and signal present LEDs				1 XLR mic/line input*
Analog outputs	8 XLR outputs with mute and signal present LEDs				2 XLR outputs*
Digital inputs	4 pairs of XLR stereo AES/EBU (8 channels total)				None*
Digital outputs	4 pairs of XLR stereo AES/EBU (8 channels total)				None*
Headphone outputs	2 independent ¼" TRS stereo headphone jacks				1 ¼" TRS stereo headphone jack
Ancillary I/O	DVI-D video out, 5 USB 2.0 (2 rear, 2 front, 1 internal), ECx Ethernet port for wired/wireless remote control, GPIO (8 in/8 out), 2 footswitch, Linear Time Code input, MIDI I/O				
Ethernet AVB ports	2 etherCON (copper), 2 selectable as etherCON (copper) or SFP (fiber); redundant ring topology; supports Luminex GigaCore 26i and GigaCore 10 AVB switches for redundant star configuration				
Power supply	Dual redundant, internal hot-swappable PSUs			Dual redundant, internal**	
Height (front, rear)	3.6, 15.3 inches (91, 388 mm)			3.6, 8 inches (91, 205 mm)	
Width	76.1 inches (1,934 mm)	51.3 inches (1,304 mm)	38.9 inches (989 mm)	38.9 inches (989 mm)	26.4 inches (671 mm)
Depth	31 inches (787 mm)				
Weight	212 lbs (96 kg)	155 lbs (70 kg)	119 lbs (54 kg)	84 lbs (38 kg)	72 lbs (33 kg)

\* Local 16 Rack can supply additional local I/O

\*\* S6L-24C and 16C power supplies are not compatible/swappable with S6L-48D, 32D, and 24D control surface power supplies, or with E6L-192 and 144 engine power supplies

ENGINES	E6LX-256	E6L-192	E6L-144	E6L-112
Sample rates	96 kHz			
Input channels	256	192	144	112
Input processing	HEAT, HPF, LPF, 4-band PEQ, Expander/Gate, Compressor/Limiter, Delay, 8 plugin inserts, hardware insert (4x Pre-fade, 4x Post-fade)			
Mix busses	192 + LCR	96 + LCR	64 + LCR	48 + LCR
Output processing	7-band PEQ, Compressor/Limiter, Delay, 8 plugin inserts, hardware insert (4x Pre-fade, 4x Post-fade)			
Matrix	64 x 64	24 x 24	16 x 16	16 x 16
VCAs	48	48	48	48
Stereo solo busses	2, with independent control			
Graphic EQs (31-band)	All Outputs and Matrix			
Digital signal processing	Supports up to 4 HDX-192 DSP Expansion Cards for plugin processing; includes one card		Supports up to 2 HDX-192 DSP Expansion Cards for plugin processing; includes one card	Supports up to 2 HDX-192 DSP Expansion Cards for plugin processing; base unit includes one card
Plugin support	64-bit AAX DSP; also supports Waves SoundGrid systems through the WSG-HD Option Card for full integration with S6L, or over MADI			



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ENGINES	E6LX-256	E6L-192	E6L-144	E6L-112
Plugin slots	400	400	400	400
Pro Tools integration	Record/play back up to 128 audio tracks via Console AVB Record/play back up to 216 audio tracks via MLN-192 expansion card in AVB-HD mode.			
Expansion option card slots	8	8	8	2
I/O sharing	Supports up to three S6L systems—up to 192 inputs total, depending on the E6L engine in use (requires two AVB-192 Ethernet AVB Network Cards to share I/O)			
Ethernet AVB ports	Includes two AVB-192 Ethernet AVB Network Cards with two ports (per card), selectable as etherCON (copper) or SFP (fiber), with redundant ring topology; supports Luminex GigaCore 26i and GigaCore 10 AVB switches for redundant star configuration			
Word Clock I/O	Clock I/O BNC, 75 Ohm coaxial			
USB ports	5 USB 2.0 ports (2 front, 2 back, 1 internal)			
Power supply	Dual redundant, internal	N+1 redundant, internal hot-swappable PSUs		Dual redundant, internal*
Dimensions (H x W x D)	8.6 x 19 x 21.2 inches (218 x 537 x 483 mm)	8.6 x 16.9 x 19 inches (218 x 430 x 483 mm)		
Rack spaces	5U			
Weight	63 lbs (28.6 kg)	74 lbs (33 kg)		

\* The E6L-112 power supply is not compatible/swappable with S6L-48D, 32D, and 24D control surface power supplies, or with E6L-192 and 144 engine power supplies

I/O RACKS	STAGE 64	STAGE 48	STAGE 32	STAGE 16	LOCAL 16
Maximum I/O	64 input channels, 32 output channels @ 96 kHz with one Stage 64 rack; up to 192 inputs/96 outputs supported (depending on the E6L engine in use) with three Stage 64 racks (64 ins/32 outs each)	48 analog input channels and 24 analog output channels @ 96 kHz with one Stage 48 rack	Total of 32 input/output channels @ 96 kHz with one Stage 32 rack	16 XLR mic inputs/preamps, 8 XLR line outputs, 4 channels of AES3 output	8 XLR mic/line inputs, 8 XLR outputs, 4 pairs of XLR stereo AES/EBU inputs (8 channels total), 4 pairs of XLR stereo AES/EBU outputs (8 channels total)
I/O card slots	12	n/a	4	n/a	n/a
Sample rates	96 kHz	96 kHz	96 kHz	96 kHz**	96 kHz
Ethernet AVB ports	2, selectable as etherCON (copper) or SFP (fiber), with redundant ring topology; supports Luminex GigaCore 26i and GigaCore 10 AVB switches for redundant star configuration			2 Gigabit Ethernet AVB ports, etherCON (copper), with redundant ring topology; supports Luminex GigaCore 26i and GigaCore 10 AVB switches for redundant star configuration	2, each providing etherCON (copper) or SFP (fiber optic) connections
Maximum cable length	Copper: 100 meters (328 feet); Fiber: 500 meters (1,640.4 feet)			100 meters (328 feet)	Copper: 100 meters (328 feet); Fiber: 500 meters (1,640.4 feet) for Multi-Mode, 10,000 meters (32,808 feet) for Single Mode Fiber
MADI	Dual MADI output offers direct split of all 64 inputs	Dual MADI output offers direct split of all 48 inputs	Single MADI output offers direct split of up to 32 inputs	n/a	n/a
Headphone confidence monitor	¼" TRS stereo headphone jack with volume control; display for channel selection	n/a	n/a	n/a	n/a
Word Clock I/O	BNC, 75 Ohm coaxial	n/a	n/a	n/a	n/a
Power supply	Dual redundant internal PSUs			Single internal PSU	Dual redundant internal PSUs
Dimensions (H x W x D)	17.5 x 19 x 12.2 inches (445 x 484 x 310 mm)	14 x 16.9 x 19.7 inches (355 x 430 x 501 mm)	8.7 x 19 x 17.7 inches (221 x 484 x 448 mm)	6.9 x 19 x 8.1 inches (175 x 484 x 206 mm) with ears/handles out (rackmount configuration)	5.2 x 19 x 11 inches (484 x 442 x 278 mm)
Rack spaces	10U	8U	5U	4U	3U
Weight	69 lbs (31 kg)	35 lbs (76 kg)	49 lbs (22 kg)	21 lbs (9.5 kg)	16.3 lbs (7.4 kg)

\*\*When connected to VENUE | S6L—operates at 48 kHz when connected to VENUE | S3L-X

FOR MORE INFORMATION, VISIT

[avid.com/S6L](https://avid.com/S6L)