



# AVATUS

**MIXING CONSOLE // DISTRIBUTED-REMOTE-  
CONSOLE**



## TECHNICAL SPECIFICATIONS

### NEXUS Star Router

Design	19"-rack mount, 6 HE
Dimensions	265 x 482 x 410 mm (approx. height x width x depth; without connectors and handles)
Slots	21, 14 of which are reserved for DSP modules
DSP modules	1 to 7 per mixer
Signal transit times	< 1.5 ms at 48 kHz/s < 1 ms at 96 kHz/s (values include A/D and D/A conversion within the NEXUS network)
Power supplies	110-240 V, 50-60 Hz, per 30 A single-phase or two-phase, designed for phase redundancy
Redundancy options	Power supplies, matrix, control modules, DSP (user-configurable), fiber optic connections within the NEXUS network, and fiber optic connections to the console
Modules	Hot-swappable, accessible in just 2-3 seconds in the system

## AUDIO & CONSOLE FEATURES

Control strip with A/B input	Bays with 12 control strips each (12 to 96 strips per console)
Number of summing busses	Up to 128, freely programmable (depending on the number of DSP cards and configured channels)
Number of input channels	Up to > 800 (depending on the number of DSP cards and configured busses)
Algorithms	40-bit floating point, lowest latency, sample-accurate addition, guaranteeing the same runtime over all DSP channels
Sampling rates	44,1 / 48 / 88,2 / 96 kHz
Interfaces	All of the audio inputs and outputs that are available in the NEXUS network, access to all GPIOs, serial and Ethernet connections
Microphone & line A/D converter	32-Bit TrueMatch®, 158 dB(A) dynamic
A/D converter	32-Bit TrueMatch®, 135 dB(A) dynamic
D/A converter	24 Bit, 131 dB(A) dynamic
GPIO card	Optional in the console: GPIO max. 16 optocoupler inputs and 16 semiconductor re-lay outputs for the 25 pin sub-D, inputs with a common reference or potential-free contact pairs can be configured; input and output filters for noise cancellation
Connection to the Star router	RJ45 and fiber optics, optional redundancy 1 Gbit/s with 50/125 µm glass fiber, range of up to 800 m, LC duplex connector


**DIMENSIONS**

<b>AVATUS S</b>	<b>12</b>	<b>24</b>	<b>36</b>	<b>48</b>	<b>60</b>	<b>72</b>
Number of bays	1	2	3	4	5	6
Control depth, approx.	700 mm	700 mm	700 mm	700 mm	700 mm	700 mm
Total depth	913 mm	913 mm	913 mm	913 mm	913 mm	913 mm
Console height	406 mm	406 mm	406 mm	406 mm	406 mm	406 mm
Height including feet	1.066 mm	1.066 mm	1.066 mm	1.066 mm	1.066 mm	1.066 mm
Width with standard side panels	593 mm	1.095 mm	1.597 mm	2.099 mm	2.601 mm	3.103 mm
<b>AVATUS D</b>	<b>12</b>	<b>24</b>	<b>36</b>	<b>48</b>	<b>60</b>	
Number of bays	1	2	3	4	5	
Control depth, approx.	700 mm	700 mm	700 mm	700 mm	700 mm	
Total depth	913 mm	913 mm	913 mm	913 mm	913 mm	
Console height	406 mm	406 mm	406 mm	406 mm	406 mm	
Height including feet	1.066 mm	1.066 mm	1.066 mm	1.066 mm	1.066 mm	
Width with standard side panels	593 mm	1.095 mm	1.597 mm	2.099 mm	2.601 mm	
<b>AVATUS C</b>	<b>12</b>	<b>24</b>	<b>36</b>			
Number of bays	1	2	3			
Control depth, approx.	540 mm	540 mm	540 mm			
Total depth	750 mm	750 mm	750 mm			
Console height with metering	380 mm	380 mm	380 mm			
Console height without metering	150 mm	150 mm	150 mm			
Height incl. feet and metering	-	1.040 mm	1.040 mm			
Width with slim side panels	520 mm	1.020 mm	1.520 mm			
<b>AVATUS E</b>		<b>24</b>	<b>36</b>			
Number of bays		2	3			
Control depth, approx.		400 mm	400 mm			
Total depth		610 mm	610 mm			
Console height		350 mm	350 mm			
Height including feet		1.010 mm	1.010 mm			
Width with standard side panels		1.020 mm	1.520 mm			

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AVATUS



AURUS



CRESCENDO

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