

Avantis Product Description



Name: Avantis

Type: 64 channel / 42 bus digital mixer

At A Glance:

- Next-generation 64 channel / 42 bus digital mixer
- XCVI Core – 96kHz FPGA processing with 96-bit mix bus and 0.7ms latency
- Fully configurable mix bus architecture
- Connectivity with Allen & Heath's Everything I/O ecosystem of remote expanders
- dPack option adds dLive processing including 16 Dyn8 engines, plus per-channel zero-latency DEEP compressors and preamps
- Dual Full HD 15.6" touchscreens
- Continuity UI seamlessly connects physical and touchscreen controls for the fastest, most intuitive workflows
- Lightweight, super-strong full metal chassis

Introduction:

The third mixer based on our 96kHz XCVI FPGA engine, Avantis puts all our next-generation technology in a standalone 64 channel / 42 configurable bus console, with dual Full HD touchscreens, a super-flexible workflow with Continuity UI, extensive I/O options, add-on processing from our flagship dLive mixing system, and a rugged full metal chassis.

Full Feature List:

- 96kHz 64 channel / 42 bus digital mixer
- XCVI FPGA core with ultra-low latency (0.7ms)
- Fully configurable mix bus architecture
- Super-tough, full metal chassis
- Continuity UI seamlessly connects physical and touchscreen controls for the fastest, most intuitive workflows
- dPack option adds dLive processing, including 16 Dyn8 engines, plus per-channel zero-latency DEEP Compressors and Dual-Stage Valve preamp
- 12 RackExtra FX slots with dedicated stereo returns
- 16 DCAs
- Dual 15.6" Full HD capacitive touchscreens with gesture control

- AMM (Automatic Mic Mixer) up to 64 channels across 1, 2 or 4 zones
- Fully assignable layout
- 144 fader strips (24 faders, 6 layers) with optional dedicated master section
- SLink port for connection to Remote I/O Expanders and the ME Personal Mixing System
- 12 analogue XLR Inputs / 12 analogue XLR Outputs
- 1 Stereo AES In / 2 Stereo AES Out
- 2 I/O Ports, both capable of 128x128 operation at 96kHz – for optional cards inc. Dante, MADI and gigaACE
- User configurable rotary controls
- 24 assignable SoftKeys
- Comprehensive metering with multipoint peak detection
- USB stereo recording and playback
- BNC Word Clock

96kHz XCVI Core

Avantis is the third console to be powered by the 96kHz XCVI core – pioneered by Allen & Heath using next generation FPGA technology, with parallel virtual processing cores delivering 64 full processing inputs and a configurable 42 bus architecture with phase coherency on all mix outputs. XCVI employs variable bit depth for ultimate precision and noise performance, a 96bit mix bus, and offers ultra-low latency at just 0.7ms.

XCVI also enables DEEP processing, embedding class-leading processing emulations directly within the input and mix channels.

Easy expansion with Everything I/O

Whether you're an owner/operator looking to build a compact system, or a rental company with existing Allen & Heath stock, the SLink connection on Avantis allows true flexibility by connecting to the entire range of Allen & Heath audio expander hardware.

There's also compatibility with our ME Personal Mixer range and our IP hardware remote controllers.

Continuity UI - Touch the big picture

With a massive 206 square inches of screen space operating at a crisp 1080p Full-HD resolution, Continuity UI allows you to see and instantly interact with more of what matters, enabling a seamless connection between the physical controls and the displays. The faders react on touch to immediately highlight the

active channels for instant visual feedback. The channel rotaries let you work gains or pans, then at the touch of a button, dynamically fold the display to show EQ or compressor parameters across the whole bank. Each screen also features a FastGrab tab on the right-hand side, giving you split-second access to key freely-assignable parameters like aux sends, EQ, compressor and FX on the currently selected or specific channel. The whole system is set-up to dynamically surface the information you need at any moment and put control right at your fingertips.

Get dLive Processing with dPack

Right out of the box, Avantis is loaded with powerful processing tools that will easily meet the demands of most users and applications. Want more options? Upgrade your console to Avantis dPack, and you'll get additional processing from Allen & Heath's flagship dLive system, including Dyn8 (up to 16 instances), DEEP Compressors, and the Dual-Stage Valve preamp. Best of all, all future dPack updates will be automatically included, forever and free of charge.

Full metal chassis

Every part of Avantis is designed in pursuit of performance. Encased in a super-strong, full metal tubular exo-skeleton, Avantis is lightweight and easy to lift but incredibly robust.

Dante, Waves and more...

Two additional I/O Ports allow Avantis to benefit from the full range of current dLive option cards, including Dante (64x64 and 128x128), Waves, gigaACE, MADI and more, expanding the scope for system integration, FoH / monitor splits and multitrack recording.

For local I/O, Avantis is well equipped with 12 XLR analogue inputs, 12 XLR analogue outputs, plus AES (Stereo In, 2x Stereo Out).

12 RackExtra FX Engines

Allen & Heath has a well-earned reputation for crafting FX emulations that rival the very best third party plug-ins, but with none of the associated hassle. Avantis is armed with 12 stereo FX engines and features the acclaimed RackExtra library of emulations of legendary classic reverbs, gated reverbs, delays, modulators and more. All FX have dedicated stereo returns so you don't need to waste input channels.