

PRO TOOLS | HDX

Real-time mixing and processing power for Pro Tools | Ultimate



Pro Tools® | HDX is the hardware engine extension of Pro Tools | Ultimate™ software, delivering the DSP power, scalability, and reliable performance that make the most demanding music and audio post-production workflows possible. Take on the largest sessions with confidence with the guaranteed performance and track counts HDX brings.

THE HEART OF A COMPLETE PRO TOOLS SOLUTION

Pro Tools is more than just software—it's a complete hardware, software, and control surface solution. And Pro Tools | HDX makes this fully optimized system a reality. As the DSP nerve center of Pro Tools | Ultimate software, it delivers the lowest latency, the utmost reliability, and a premium tracking and mixing experience that is unmatched in the industry. Integrate modular, pristine-sounding Pro Tools hardware interfaces to meet any I/O need. And bring the power of HDX to your desktop or studio rack with the Pro Tools | HDX Thunderbolt 3 Chassis, built in partnership with Sonnet.

GET UNRIVALED DSP POWER, BACKED BY AN INDUSTRY

Pro Tools | HDX is the industry's most powerful DSP platform, providing 18 TI FPGA chips per card and 6.3 GHz aggregate processing, so you can handle the largest, most complex sessions with confidence. Record and mix thousands of tracks and plugins in real time. And monitor your system performance, so you always know if you have the headroom to add more AAX DSP plugins to your mix. For everything from Grammy® Award-winning songs, to Oscar®-winning film sound, the industry's leading music studios and audio post facilities rely on HDX for its unmatched power and proven reliability, enabling the highest quality mixes consistently.

THE PROFESSIONAL DSP TRACKING AND MIXING EXPERIENCE

Experience the most intuitive, creative, and flexible DSP plugin workflow in the industry. Set effects chains for tracking and mixing entirely in Pro Tools | Ultimate. Toggle between DSP and native processing to get the best of both worlds—without requiring a secondary application. You can even use the same AAX DSP plugins in native processing mode—without your HDX hardware connected—freeing you to create on the road or in another studio. Plus, working with your favorite outboard gear is as easy as inserting plugins, with the system automatically handling the input delay compensation, so you can spend more time creating than calculating offsets.

SCALE YOUR SYSTEM FOR ANY PROJECT

Whether tracking a 5-piece band, full orchestra, or re-recording a theatrical Dolby Atmos® mix, you can scale the system's DSP and physical I/O to any project requirement. Connect multiple Pro Tools hardware I/O interfaces to a single 64-channel HDX card. Install up to three HDX cards in a single system for more demanding projects, supporting up to 768 voices and 192 I/O channels while delivering smooth, uninterrupted performance. For large multi-workstation productions, you can sync and control up to 12 Pro Tools | Ultimate systems from a single transport using Satellite Link and map tracks from each to your Avid® control surface faders.

KEY FEATURES

- › Track and mix the largest sessions with the most powerful DSP audio workstation
- › Get the lowest latency in the industry—only 0.7 ms
- › Capture and monitor pristine-quality sound with premium Pro Tools hardware I/O interfaces
- › Record, edit, and mix with award-winning Pro Tools | Ultimate software
- › Toggle easily between DSP and native processing for greater workflow flexibility
- › Create fluidly with the expansive and growing AAX DSP plugin platform
- › Integrate outboard gear as easily as inserting plugins with automatic input delay compensation
- › Scale your DSP, voice count, and I/O capacity for any workflow
- › Accelerate Dolby Atmos workflows with all the I/O channels you need
- › Get the utmost reliability and peace of mind that comes with guaranteed voice counts and performance



FOR MORE INFORMATION, VISIT
[avid.com/hdx](https://www.avid.com/hdx)



PRO TOOLS | HDX—Real-time mixing and processing power for Pro Tools | Ultimate

TRACK WITH ZERO LATENCY

Because HDX powers all mixing, routing, automation, and processing, the system can achieve exceptionally low latency—the lowest in the industry (0.7 ms). This enables vocalists, musicians, voiceover artists, and other talent to deliver their best performances when recording—without the technology getting in the way.

GET EVERYTHING YOU NEED IN ONE EASY BUNDLE

Outfit your professional studio easily with a with a powerful Pro Tools | HDX Thunderbolt bundle that's fully assembled and ready to go. Each bundle includes a Pro Tools | HDX Thunderbolt 3 Chassis, one HDX card, Pro Tools | Ultimate software, and your choice of Pro Tools hardware I/O interface—all at great savings. Plus, get over 70 AAX DSP plugins and a 1-Year Software Updates + Support Plan included with Pro Tools | Ultimate.

SPECIFICATIONS

DSP processing	18 x 350 MHz TI processors per HDX card (6.3 GHz aggregated processing)
Latency*	0.7 ms
Simultaneous voices/audio tracks @ 48/96/192 kHz**	256/128/64 (scalable up to 768 with three HDX cards)
Channels of I/O	64 (scalable up to 192 with three HDX cards)
Automatic Delay Compensation for hardware inserts	16,383 samples
Processing depth	32-bit floating point
Mixer depth	64-bit floating point
Included software	Pro Tools Ultimate (perpetual license)
System requirements	Avid-qualified Mac or Windows computer (visit avid.com/hdx for details)

* Latency calculated using a 96 kHz sample rate with a 64-sample buffer. Tests run using Pro Tools | HDX with Pro Tools | HD I/O.

** Audio tracks based on sample rates of 48/96/192 kHz, respectively. Installing additional cards will increase track counts to the maximum allowable.

AVAILABILITY

Bring the power of Pro Tools | HDX to your studio in the way that best suits your needs

DESIGN YOUR OWN OR EXPAND AN EXISTING HDX SYSTEM

Pro Tools HDX PCIe card	Available with or without Pro Tools Ultimate software; integrate up to three HDX cards in a single system
Pro Tools HDX Thunderbolt 3 Chassis (empty)	Holds a single HDX card for connection to Thunderbolt-equipped computers; available in a desktop or rackmount (which can house a Mac mini too) design
Pro Tools hardware I/O interfaces	Add one or more audio interfaces (each HDX card supports 64 I/O channels, 192 I/O max with three cards): <ul style="list-style-type: none">> Pro Tools MTRX™> Pro Tools HD OMNI> Pro Tools HD MADI> Pro Tools MTRX Studio> Pro Tools HD I/O> Pro Tools SYNC HD
Avid control surfaces	Take deep, hands-on control of Pro Tools Ultimate and Pro Tools hardware interfaces through EUCON™: <ul style="list-style-type: none">> Avid S6> Avid S3> Avid Dock> Avid S4> Avid S1> Avid Control

GET EVERYTHING YOU NEED IN ONE BUNDLE—HDX CARD, CHASSIS, SOFTWARE, AND INTERFACE

Pro Tools HDX Thunderbolt 3 HD OMNI	Get the essentials for music or post production with a bundle that comes with the 1U HD OMNI interface, offering two premium mic preamps, 7.1 surround monitoring, and a 14-input persistent monitor mixer.
Pro Tools HDX Thunderbolt 3 HD I/O (8x8x8, 16x16A, or 16x16D configurations)	For music and audio post environments that need pristine sound quality and ample I/O, the HD I/O bundle is flexible and modular. Choose one of three configurations, which can be scaled as your studio evolves.
Pro Tools HDX Thunderbolt 3 HD MADI	Integrate HDX into any audio post or live broadcast environment easily with a bundle that includes HD MADI. Facilitate complex workflows, including Dolby Atmos mixing, and interface with any MADI device.
Pro Tools HDX Thunderbolt 3 MTRX Studio	Get the ultimate studio centerpiece for music and audio post with a bundle that includes MTRX Studio, offering flexible routing, 7.1.4 Dolby Atmos monitoring, and 64 channels of Dante in a single 1U interface.

FOR MORE INFORMATION, VISIT avid.com/hdx