

PRO TOOLS | HDX

Power to push limits



Pro Tools® | HDX Systems make the world's biggest productions possible. The HDX PCIe card is the real-time mixing and processing engine at the heart of a fully optimized Pro Tools hardware, software, and control surface system, delivering precision-timed mixing, routing, automation, and plugin performance. And its hybrid capabilities accelerate the most demanding music and audio post workflows, so you can deliver your best, most creative work without constraint.

GET UNCOMPROMISING PERFORMANCE

With 18 DSP cores per card, up to 192 I/O channels, and only 0.7 ms monitoring latency, Pro Tools | HDX delivers unmatched DSP power and the guaranteed performance to remove barriers from any workflow. Record and mix demanding sessions with ease—from tracking the biggest bands and orchestras, to delivering Dolby Atmos mixes. And get precision frame edge alignment when working with sound for picture using Pro Tools | Sync X.

RECORD AND MIX WITH INTELLIGENT PRO TOOLS INTEGRATION

The Hybrid Engine maximizes performance by using DSP and native processing in concert, so your HDX System feels faster and more responsive as you move between tracking and mixing. Run massive sessions smoothly on your computer, with up to 2,048 voices, taking advantage of its robust processing power. And get DSP power on demand from HDX when you want to record with near-zero latency or free up your CPU to handle more virtual instruments.

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—up to 192 channels. Choose from a variety of interfaces and connectivity options. And assemble your ideal combination of I/O, monitoring, routing, and speaker tuning capabilities that offer the highest sound quality, flexibility, and adaptability for any workflow. You can even sync workstations for dual-operator workflows.

MAXIMIZE PRO TOOLS PERFORMANCE WITH THE HYBRID ENGINE

With the Hybrid Engine, your computer handles all processing, voice count, and mixing, enabling you to record and mix the biggest sessions smoothly. Then, when you need to supplement your CPU power or record, it gives you on-demand access to the ultra-low latency capabilities of HDX. Simply put a track in DSP Mode to offload its entire signal chain and AAX DSP-compatible plugins to HDX. And toggle back to native processing at the touch of a button, so you can move seamlessly between tracking and mixing without the hassle of latency.

KEY FEATURES

- › Track and mix the largest sessions with the most powerful hybrid 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
- › Run DSP and native processing in concert with the Hybrid Engine 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 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



PRO TOOLS | HDX—Power to push limits

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 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	2,048 across all sample rates and configurations
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.

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): - Pro Tools MTRX™ - Pro Tools HD OMNI - Pro Tools HD MADI - Pro Tools MTRX Studio - Pro Tools HD I/O - Pro Tools Sync X
Avid control surfaces	Take deep, hands-on control of Pro Tools Ultimate and Pro Tools hardware interfaces through EUCON™: - 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 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.

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