

Computer Recording

Hardware

Studio Konnekt 48
Digital Konnekt x32
Konnekt 24D and Konnekt 8
Konnekt Live
PowerCore Firewire
PowerCore PCI mkII
PowerCore Express
PowerCore Compact

Plug-ins

DVR2 Digital Vintage Reverb
NonLin2 Stereo Effects Reverb
MD3 Stereo Mastering
UnWrap Stereo to 5.1
VSS3 Stereo Source Reverb
Sony Oxford Dynamics
Sony Oxford EQ's
Sony Oxford Inflator
Sony Oxford Limiter
Sony Oxford TransMod
Assimilator
Dynamic EQ
Audiffex VL2
Fabrik C
Fabrik R
Tube-Tech CL 1B
Harmony4
Intonator HS
Master X3
Master X5
Virus I PowerCore
VoiceDoubler
VoiceModeler
V-Station I PowerCore
TC Thirty
Restoration Suite

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TC Computer Recording

The TC Electronic computer recording product line features a complete palette of tools that enable you to give your music the best treatment possible within the computer recording realm. Start recording with the award-winning Konnekt audio interfaces that enable you to record and mix your music at premium quality. Add powerful DSP processing from the PowerCore which offloads your computer's CPU, and finalize with high-end plug-ins for the very best in processing for your preferred audio workstation. Providing the best processing of your complete signal path, TC Electronic's computer recording section delivers a complete product line spanning from affordable to no compromise high-end.

Audio Interfaces

The Konnekt series of FireWire powered audio interfaces has brought a whole new level of sound quality and production efficiency to a wide range of audio professionals. From performing and recording musicians and singer/songwriters, over live laptop artists to project and high-end studios seeking world-class DSP powered interface solutions to their recording, routing, mixing and monitoring requirements.

TC Electronic has a long tradition of developing high precision converters and top end analog circuits. Based upon this world-renowned converter technology the Konnekt FireWire audio interfaces feature the DICE II chip with JET™ jitter elimination technology and the IMPACT™ preamp boasting unprecedented sound quality, ultra fast processing, plenty of headroom, low noise and an extremely good performance. The Konnekt series features full monitor mixer and zero latency monitoring, even when monitored through the effects.



PowerCore Platform

PowerCore is a superior range of high-end plug-ins that run on tailor-made hardware. The range covers any need that you might have, and in a quality not found in other VST and AU compatible plug-ins. From basic tools like reverbs, EQs, compressor/ expanders, chorus/delays, over plug-ins that are dedicated to the voice, sporting pitch correction and Voice Modeling™, to some of the very best tools on the market, like the Restoration Suite and the selected System 6000 algorithms for PowerCore. On top of that there are renowned synths like the V-Station from Novation and the fantastic VirusPowerCore by Access.

The PowerCore platform features tailor-made DSP hardware in PCI, PCI Express and FireWire form, which will take your mixing skills to the next level. Pick and choose from the large selection of high-end plug-ins and design your own custom processing solution.

PowerCore Plug-ins

One of the DSP solutions with the largest selection of plug-ins from both TC Electronic and numerous 3rd party developers, there's something for everybody with PowerCore: high-end processing from the System 6000, synthesizers like the Virus and V- Station, vocal tools taken from the groundbreaking TC-Helicon products, compressors/expanders, EQ, surround processing and guitar amp simulations for either recording, mixing or mastering purposes.

Pro Tools Plug-ins

From the industry standard Master X3 multiband compressor to the palette of selected System 6000 algorithms for either mastering, reverb or surround processing, TC Electronic offers what you need to make your music shine in Pro Tools.

Studio Konnekt 48 – Faith Is One Thing – Control Is Another

Studio Control Audio Interface

Studio Konnekt 48 offers the most comprehensive feature set that the world has ever seen in a FireWire powered audio interface. It is one of the most complete products TC Electronic has ever made, and it represents a milestone to the computer recording world.

Studio Konnekt 48 offers a comprehensive array of professional features that makes recording, mixing and monitoring a breeze. All essential recording tools are in one box including world-class DSP effects, a wealth of I/O options, speaker management and many other powerful tools to take your recordings to the next level. And it comes with a sleek, compact desktop remote with a built-in talkback microphone.

Extensive I/O Section

TC Electronic has a long tradition of developing high precision converters and top end analog circuits and the IMPACT II™ preamp is the best we've put out to date. Studio Konnekt 48 has four of these and a total of 12 simultaneous analog ins and outs - offering plenty of headroom, low noise and an extremely good performance. A sensor detects whether you have attached a microphone or an instrument and selects the appropriate circuit via the built-in relay switch.

On top of the analog I/O section, Studio Konnekt 48 provides a wealth of digital input formats, such as 96 kHz double ADAT (8 channels SMUX), word clock and SPDIF and two headphone outputs with independent amplification, level control and source.

World-class DSP Effects

Anybody familiar with TC knows that our hardware products boast superior and award-winning sound quality. The Studio Konnekt 48 effects are no exception. Based on System 6000 algorithms and Reverb 4000 technology, you get the capabil-

ity and the sound quality of two full-blown 19" rack unit effects processors – built directly into the Studio Konnekt 48. The software package that comes with Studio Konnekt 48 contains a nice mix between plug-ins running on the Studio Konnekt 48 DSPs and native plug-ins that run on your computer's CPU.

24 in 8 out Digital Mixer

Now you can skip your physical mixer in the analog world altogether. Studio Konnekt 48's built-in mixer has got all you need with total recall, DSP effects insert points, 48-bit double precision sum busses and 56-bit internal processing. And you don't have to run a host application or even turn on your computer – all essential mixer parameters are fully operational from the included remote control unit.

Speaker/Bass Management

Put your mix straight at the cutting edge of modern surround standards. With support for surround systems including a full featured bass management section based on AIR™ technology Studio Konnekt 48 enables you to set individual speaker levels and delay at an unprecedented level for audio interfaces. This ensures perfect level alignment between speakers and compensation for control room acoustics inadequacy.

Remote Control

The included Studio Kontrol remote gives you instant access to all essential mixer parameters at any time.

Its intuitive encoder offers easy control of a great variety of assignable functions. The dual functionality of the encoder allows you to shift between and control two functions at a time. A compact design and a built-in talkback microphone bring usability and studio control to the tip of your finger.



studiokonnekt 48



Features

- 4 IMPACT II™ mic preamps
- 12/12 analog I/O simultaneously
- High resolution input meter
- 96 kHz ADAT (8 channels SMUX), word clock and SPDIF
- 30/28 channels simultaneously to/from DAW
- Digitally controlled analog main XLR outputs
- Dual headphone outs with individual amplification, level control and source
- Flexible 24/8 DSP mixer with total recall and DSP effects insert points
- No compromise routing for all outputs
- Full 48-bit double precision summing on all mix busses with 56-bit internal processing
- Talkback with selectable dim setting and listen back feature
- Aux send busses with flexible output routing
- Native effects: ResFilter and Assimilator Konnekt
- World-class DSP effects: Fabrik C Studio, Fabrik R Studio
- All plug-ins VST and AU compatible
- 4 simultaneous 4-band EQ, multiband compression channel strip and mastering effects based on TC System 6000 algorithms
- No compromise built-in reverb based on Reverb 4000 technology
- Intuitive guitar tuner
- Hardware effects Integrator plug-in
- Full featured bass management section based on AIR™
- Speaker Management Technology
- Full support for surround systems
- Individual speaker level and delay settings in 0.1 steps
- Selectable frequency crossover points
- Support for 3 speaker systems, individually configurable, selectable from remote control
- Desktop remote control with built-in talkback microphone
- DICE II JetPLL™ jitter elimination technology with ACR™ Advanced Clock Recovery
- Expandable with all other Konnekt interfaces through TC Near™

Digital Konnekt x32 – All the Tools - One Toolbox

Patchbay, Sample Rate & Format Converter, Master Clock and FireWire Audio Interface

Digital Konnekt x32 not only puts patching and signal-splitting under preset control and converts between formats. What comes out is also better than what went in.

Up until now, the pro audio market has only seen single function units such as format and sample rate converters, patchbays, house clocks and audio interfaces offering digital signal handling. Never before have these essential functions been incorporated in a single platform linking your entire fleet of digital devices to your DAW.

Digital Patchbay

Tired of re-wiring over and over again? With Konnekt Digital x32 you connect your digital hardware once, make the wiring that fits your setup requirements and you're good to go. All subsequent routing takes place from the front panel of Digital Konnekt x32.

Sample Rate & Format Converter

Digital Konnekt x32 converts between units using ADAT, SPDIF, TOS and AES/EBU digital formats. Any input format can be converted into either of the listed formats and aligned to any sample rate ranging from 44.1 to 96 kHz.

Digital Konnekt x32 has 8 channels of 128 dB dynamic range, -125 dB THD state-of-the-art sample rate converters.

Clock Clean-up and Jitter Elimination

Digital Konnekt x32 provides efficient format conversion and master clocking that sets new standards for timing accuracy and jitter elimination in computer interfaces.

Thanks to System 6000 grade clock clean-up and jitter elimination, Digital Konnekt x32 makes your other audio devices and DAW perform better while at the same time facilitating digital interfacing. Digital Konnekt x32 handles AES, ADAT, SPDIF and FireWire audio, and provides extra features such as computer independent operation, convenient monitoring and UI lock.

Audio Interface

Two FireWire connections enable you to use Konnekt Digital x32 as an audio interface connected to a computer. It streams 16 channels of audio to and from the computer, and is compatible with other TC Electronic audio interfaces.

Make Your Favorite Hardware the Heart of Your DAW

With Digital Konnekt x32 and the new Integrator plug-in, you can now utilize your trusted and favorite digital hardware tools within your DAW environment.

Featuring TC's plug-in streaming technology, the Integrator plug-in (VST and AU) facilitates seamless integration of all external units with your recording setup. Once connected, adding the unique sound of your Reverb4000 (or any other digital external hardware unit) is just a mouse click away. And with the built-in latency roundtrip measuring feature and your DAW's latency compensation, your projects will not suffer from latency introduced by the external hardware.



digitalkonnekt x32



Features

- Flexible digital patchbay
- Format converter
- 16x16 ch audio interface
- Seamless DAW integration with Integrator plug-in
- Unique digital matrix style UI for direct selection of signals
- 8 ch of sample rate conversion on board for optimal digital adaptation
- Analog outs (phone and balanced line) for monitoring
- Scene recall enabling instant recall of full setups
- Front panel UI lock to prevent unintended use
- JET™ technology ensures rock solid digital signal handling and clocking

Konnekt Live: Stage-Of-The-Art

- For Live Performance

To call Konnekt Live an intriguing interface for live performers is merely scratching the surface. Whereas most audio interfaces in the live laptop performance scene are in fact designed for recording purposes, Konnekt Live raises the bar and offers clear-cut playback advantages to live laptop performers. Imagine a master compressor, a Finalizer that puts you in full control of your output. Add to that Konnekt Live's extensive output routing that enhances the audio passing through via its

optimized analog output section. Bundled with Ableton Live software and a suite of built-in DSP effects, you won't find a more versatile interface for your live performance.

Typically, real-time, high quality output processing puts heavy demands on your CPU. Not so with Konnekt Live. Since all DSP processing takes place inside Konnekt Live, all you have to worry about is being creative – your computer is left with plenty of headroom for other tasks.

Features

- ▶ Extensive output routing ▶ Fabrik C Live on outputs for optimal control of output signal ▶ Fabrik R Live – 9 studio quality reverb algorithms ▶ Balanced/unbalanced output switch ▶ ResFilter plug-in – Lo-cut/hi-cut filter for ultra fat filtering effects ▶ Sturdy design, made for the road ▶ Turntable cable included (RCA and grounding → XLR) ▶ RIAA plug-in for selection of different RIAA filters ▶ Assignable lightring for MIDI control ▶ Ableton Live Lite 6 TC Electronic Edition included



Konnekt 24D: Intelligent I/O – Integrated F/X

Not Just Another Audio Interface

Konnekt 24D is a ground-breaking audio interface designed for recording and performing musicians who want the highest possible sound quality from input, through built-in real-time effects, to the recording application.

Konnekt 24D integrates TC's world famous effects in a state-of-the-art design. The Fabrik C channel strip and Fabrik R reverb known from TC's PowerCore platform are built into the Konnekt 24D and they work even when the unit is used in

stand-alone mode. The Fabrik plug-ins are fully integrated with your DAW environment. They will appear like any other plug-in in your host application, whether VST or AU. And since all processing takes place inside Konnekt 24D, running the plug-ins will not put any strain on your computer. All settings are stored and recalled with your project and all parameters can be automated. Two combo inputs on the front panel combine outstanding IMPACT™ mic preamp quality with true Hi-Z inputs.

Features

- ▶ 14/14 I/O: 2 mic/inst/line, 2 line inputs and 4 line outputs, 8 ADAT and 2 SPDIF (optical and coaxial) ▶ Full featured stand alone mode ▶ Link up to 4 units to get more inputs, outputs and effects channels ▶ DICE II digital interface chip with JET™ Jitter Elimination Technology ▶ FireWire bus powered ▶ Low latency drivers: WDM, ASIO and CoreAudio ▶ 24-bit/192 kHz sampling rate ▶ Sample accurate MIDI ▶ Bundled with Cubase LE ▶ Built-in real-time DSP effects; Fabrik R reverb and Fabrik C channel strip based on MINT™ ▶ IMPACT™ mic preamps ▶ True Hi-Z guitar inputs ▶ Front panel light ring control of internal mixer parameters ▶ Intuitive control panel with automatic input detection ▶ Chromatic guitar tuner ▶ Analog volume control for perfect integration with powered speakers ▶ Dual headphone outputs, one with auto speaker muting ▶ Assimilator Konnekt native fingerprint EQ included ▶ 3 DSP programs for total recall of internal routing, mixer and effects settings ▶ TC Near™ 1394 FireWire based network for full feature direct monitoring – even between units



The Konnekt 8 audio interface is the ideal solution for recording and performing musicians who want the highest possible sound quality from input to the recording application, but don't need the built-in effects of Konnekt 24D. It features the same high quality mic/guitar inputs coupled with a stereo set of line inputs on the rear panel, along with 2 analog controlled line outputs. On top of this, it has an additional auxiliary input for convenient monitoring, and 96 kHz SPDIF. Like most other audio interfaces in the Konnekt series Konnekt 8 also provides full sample accurate MIDI implementation and FireWire connectivity.

konnekt 8



The PowerCore Concept

PowerCore is a superior range of high-end plug-ins that run on tailor-made hardware. The range covers any need that you might have, and in a quality that you've probably not been used to with other VST and AU compatible plug-ins. From basic tools like reverbs, EQs, compressor/expanders, chorus/delays, over plug-ins that are dedicated to the voice, sporting pitch correction and Voice Modeling™, to some of the very best tools on the market, like the Restoration Suite and the selected System 6000 algorithms for PowerCore. On top of that there are renowned synths like the V-Station from Novation and the fantastic VirusPowerCore by Access.

The Doorway to the Best Sounding DAW Processing

If you work with a computer, this is the best sounding processing you can get outside of the range of top-of-the-line hardware products. To get access to the PowerCore plug-ins you need a piece of PowerCore hardware. You can choose between PowerCore Compact, PowerCore FireWire, PowerCore PCI mkII and PowerCore Express to get a selection of great plug-ins included with the hardware, and then add plug-ins as you please from the wide selection of optional plug-ins. The PowerCore platform is not only a doorway to the high quality TC processing tools, but also to a wide range of plug-ins from renowned 3rd party developers like Sony Oxford, TC-Helicon and Access to name a few. With the PowerCore software you get a fully functional trial version of the TC distributed plug-ins, so you can try out the optional plug-ins before you buy them.

Complete Integration

All production tasks have moved into the computer – from MIDI and audio recording to mixing, effects and even instruments. Users demand total integration with their favorite music and film editing applications. By combining native applications with TC-quality effects and versatile tailor-made hardware options, PowerCore makes true integration possible. The platform integrates with virtually any VST, AU and RTAS* based digital audio workstation for Mac or PC.



Key Features

- ▶ High quality plug-ins included with PowerCore Compact, FireWire, PCI mkII and Express ▶ Continuous development of new optional plug-ins ▶ Fully functional trial versions of the TC distributed optional plug-ins are included with the PowerCore hardware ▶ Open platform with a growing number of 3rd party developers ▶ Choice between PCI, PCI Express, or FireWire version ▶ Windows XP and Mac OS X support ▶ VST, AU and RTAS* support ▶ Multiple PowerCore units can be used in one system ▶ 24/96 supported

* RTAS (Pro Tools) is supported via the VST to RTAS adapter from FXpansion (optional). More info on www.tcelectronic.com/support

Logic



	POWERCORE	POWERCORE EXPRESS	POWERCORE FIREWIRE	POWERCORE COMPACT
INCLUDED PLUG-INS	24/7-C Character™ EQsat Custom Chorus-Delay ClassicVerb Dynamic EQ	DeNoise EQsat Custom Filtroid MasterX3 MegaReverb	PowerCore 01 Tubifex Vintage CL VoiceStrip	24/7-C Character™ Chorus-Delay ClassicVerb EQsat Custom Filtroid MasterX3 MegaReverb PowerCore 01 Tubifex Vintage CL VoiceStrip
DSPs	4 x 150 MHz			2 x 150 MHz
S-RAM	4 x 512 kWords			2 x 512 kWords
FORM	PCI card	PCI Express card	19" Unit	Portable Design
USE	Desktop	Desktop	Laptop or Desktop	Laptop or Desktop
PLATFORM	PCI	PCI Express	Firewire	Firewire

OPTIONAL PLUG-INS FROM



The Best from Both Worlds – in 5 Different Flavors

PowerCore combines the best features from the world of hardware with ultimate processing from the world of software. With PowerCore you get the superior sound of hardware and the total integration that software has to offer – you might say that PowerCore is the sound of hardware perfectly integrated with any VST, AU or RTAS environment. On top of that you get exclusive access to the best tools in the business, not only from TC Electronic, but also from a growing number of 3rd party developers. With 5 different flavors to choose from, we've given you the ultimate freedom to pick and tailor your setup to your needs.

PowerCore X8 – Maximum Power

Our most unsparing platform to date. PowerCore X8 provides a massive amount of power, with 8 fast DSPs and oodles of RAM. It is ideal for high-end production environments where unsurpassed quality and processing capabilities are required. Designed for serious studios and professional applications, the PowerCore X8 is sure to deliver, and it will meet even the most demanding tasks and requirements.



PowerCore FireWire – External Power

PowerCore FireWire provides significant processing possibilities and it is the preferred choice for those who favor external processing. Fit it in a 19" rack together with the rest of your hardware or move it easily to new production locations. 14 plug-ins are included.



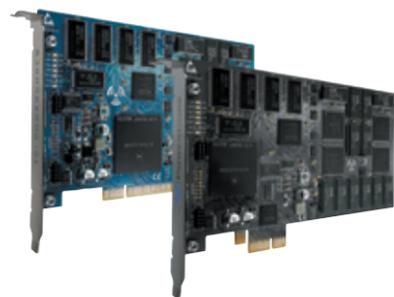
PowerCore Compact – Portable Power

PowerCore Compact is a portable solution, well suited for laptop production environments. The unique, yet sturdy, design makes the PowerCore Compact the ideal choice for productions with changing locations. 12 plug-ins are included.



PowerCore PCI mkII and PowerCore Express – Internal Power

PowerCore PCI mkII and PowerCore Express offer superior power and they are the prime choice when internal processing is preferred. Get all the benefits that a PCI or PCI Express card has to offer and experience the seamless integration of internal power. PowerCore PCI mkII supports the well-known PCI slot format and the PowerCore Express supports the new ultra fast PCI Express slots. 14 plug-ins are included with both cards.



System Requirements

MAC

Desktop or laptop, G4 or G5, 1 GHz or better, Mac OS X version 10.4 or higher, 512 MB RAM or more

FireWire and Compact: 400 MBit FireWire connector (IEEE 1394)
PCI mkII: a free PCI or PCI-X slot
Express: a free PCI Express (PCIe) slot

VST-, Audio Units- or Pro Tools or RTAS-compliant application such as Logic, Cubase SX, Nuendo, Live or Digital Performer

PC

Desktop or laptop, Pentium 4, 1.4 GHz or better, Windows XP or higher, 512 MB RAM or more

FireWire and Compact: 400 MBit FireWire connector (IEEE 1394)
PCI mkII: a free PCI or PCI-X slot
Express: a free PCI Express (PCIe) slot

VST-, or Pro Tools or RTAS-compliant application such as Cubase SX, Nuendo, Sonar or Live

24/7-C – virtual limiting amplifier

EMULATION

96 kHz

INCLUDED

Convincing vintage compression and limiting using one of the most desired vintage models for PowerCore. 24/7-C was inspired by one of the vintage processors synonymous with classic dynamics processing for mixing and mastering. This plug-in recreates the details of the sound and user interface of this hardware processor as closely as possible, delivering virtual vintage at its best.



Character™ – adaptive sound-shaping solution

ENHANCER

96 kHz

INCLUDED

The Character™ plug-in is based on an Intelligent Adaptive Filtering (IAF) technology from Noveltech, and the processing affects both the frequency response and the dynamic properties of an audio source in a highly time-varying sense. Character™ intelligently identifies and enhances characteristics in the instrument- or vocal source, which are pleasing to the human ear. The processing is non-linear and highly dependent on the source material's original characteristics, enhancing the perceivably favored individuality derived from the original musical instrument or voice.



Chorus-Delay – modulation multi-fx

CHORUS & DELAY

96 kHz

INCLUDED

Chorus-Delay provides the trademark TC Electronic chorus sound. With very flexible routing and filtering facilities it recreates the 1210 Spatial Expander with its unique modulation images like Chorus, Flanging and Slap Delay. Of course you can adjust the delay time in BPM.



ClassicVerb – classic reverb processor

REVERB

96 kHz

INCLUDED

The ClassicVerb enhances the out-of-the-box reverb flexibility of PowerCore significantly. The processor adds that "other" category of warm, lush reverb effects often associated with big expensive hardware processors to the effects menu. It's an entirely different approach from our usual reverb, and the natural sounding reverbs provided by MegaReverb.





POWERCORE

Dynamic EQ – EQ for mixing and mastering

EQ 96 kHz INCLUDED

Dynamic EQ is a new tool for any mixing or mastering situation. This virtual processor eliminates the shortcomings of static EQ by providing a dynamically applied equalization. Each of the up to 4 bands can work in static or dynamic mode, or even a mixture of both. The Sidechain bands are independent of the processing bands – so the high frequency content of a mix can control the low-end, and vice versa. The pristine processing of this plug-in is all in 48-bit double precision, and may even be used in a phase linear mode.

Note: Not included with PowerCore Compact.



POWERCORE

EQ^{SAT} Custom – hi-performance EQ

EQ 96 kHz INCLUDED

EQSat Custom is a very clean sounding and carefully crafted EQ-model for any application including mastering. The processor provides 5 bands with 3 parametric ones and 2 additional shelving bands. The frequency response display gives instant feedback on the applied equalization curve. And what's more, the unique saturation emulation can be activated to create that warm, analog sound whenever desired.

Filtroid – dual filterbank

FILTERBANK 96 kHz INCLUDED

With its dual filters and extensive modulation capabilities, Filtroid brings the sound of analog filter banks to the PowerCore platform. The filters can be used in series or parallel for the utmost creative control and extreme filter effects. With the sidechain input it is even possible to modulate the filter from another track. Tempo Sync ensures that filter movements are always synchronized to the speed of the sequencer, and a distortion unit adds an additional edge to the sound if desired.



POWERCORE

Master X3 – virtual finalizer™

DYNAMICS 96 kHz INCLUDED*

The knock out punch for any mixes or masters. MasterX3 is the virtual incarnation of the TC Electronic Finalizer™, the standard mastering processor in the pro audio field. MasterX3 expedites the mastering process by integrating several phases of mastering into a single, easy to use interface. It features multiband processing with expansion, compression and limiting separately for each band. High quality uncorrelated dithering is included as well.

** Note: Available separately for Pro Tools HD*



POWERCORE PRO TOOLS HD

MegaReverb – TC reverb processor

REVERB 96 kHz INCLUDED

The MegaReverb plug-in comes with classic reverb features like diffusion, dense tails and realistic room impressions – six room shapes that are modeled after real rooms. Separate early reflections and tail controls, algorithms based on M5000, a high cut filter, and 100 presets, is just a few of the features that the MegaReverb sports. This is a tool that provides a genuine reverb solution for all PowerCore users.



POWERCORE

PowerCore 01 – synthesizer

SYNTHESIZERS 96 kHz INCLUDED

PowerCore 01 is a mono-synth that delivers results similar to the famous SH-101, with some added features like velocity and drive. Punchy bass lines, synthetic percussion sounds or synth-leads – PowerCore 01 can do it all.



POWERCORE

PowerCore CL – channel compressor-limiter

DYNAMICS 96 kHz INCLUDED

High-quality compression and limiting on each channel is very hard to realize when limited to native processing only. Vintage CL delivers just that – up to 28 Vintage CLs can be run on one PowerCore card, or 7 per DSP. In spite of this efficiency, Vintage CL employs a carefully crafted algorithm, which emulates the behavior of industry-standard analog compression devices.



POWERCORE

Tubifex – virtual guitar amp

AMP SIMULATION 96 kHz INCLUDED

This virtual guitar amp has 3 tube stages and a speaker simulator for truly convincing amp modeling. The tubes are based on classic 12AX7 tubes, the modeled speaker was created from an actual impulse response of a 2x12 cabinet, including microphone positions. The proprietary tube simulation technology provides extremely warm and analog-sounding distortion without any audible aliasing.

Note: Runs partly on host CPU



POWERCORE

VoiceStrip – voice channel strip

CHANNEL STRIP 96 kHz INCLUDED

This complete voice processing channel includes all tools required for vocal sound adjustment: Compression, De-essing, a dedicated Voice EQ, Low-Cut Filter and Gate. Compression and EQ are modeled after classic hardware devices that deliver high-end vintage tube sound, but naturally VoiceStrip can also be used for subtle processing. All modules can be run simultaneously providing you with instant total recall for professional vocal sound.



POWERCORE



Audiffex | VL2

EMULATION

OPTIONAL

The Audiffex VL2 is ideal for both mixing and mastering. Inspired by a legendary eight channel valve interface, it adds warmth to any recording and breathes new life into otherwise clinical digital recordings. The VL2 is an elegant solution with a simple interface and a superior audio quality featuring 8 channels of characteristic valve warmth.

Note: Distributed by www.audiffex.com



Assimilator -

EQ-curve assimilation and morphing

EQ & DYNAMICS

OPTIONAL

Learn the sound of your favorite mix and apply it to your own. In short, that is what the Assimilator does. Equalization is one of the more difficult tasks in recording, mixing and mastering – especially when trying to match a certain sound. With Assimilator this process will be fast and instantaneous – 3 steps and you're done. The UI provides two complete sets of curves and a morph page. On the morph page, you can morph between two complete curve sets by simply moving one fader.

Master X5 – virtual finalizer™

DYNAMICS

OPTIONAL

MasterX5 goes beyond the MasterX3 Finalizer™ implementation, offering 5 bands, different filter slopes and double-precision processing. This plug-in provides even more detailed access during the mastering process for CD and broadcast. It is optimized for 44.1 and 48 kHz processing and also an ideal tool for optimizing material like commercials for broadcast applications; the 5 bands allow to get even more level out of the program material.



TC Thirty – virtual guitar amp based on AC30

AMP SIMULATION

96 kHz

OPTIONAL

TC Thirty is a virtual model of the classic British Vox amplifier from 1961. Relying completely on PowerCore for processing, it provides the characteristic sound and behavior of the “normal channel” found on that amp. Most users of classic AC30 amplifiers have added a modification called “treble booster”. On the TC Thirty there is also a treble booster option, which was conceived with the classic sound of Queen's Brian May in mind. Additional options also allow expanding beyond that sound and creating other tones. The plug-in provides a “No Latency” mode making the plug-in fully playable at low I/O Buffer settings and an over-sampling option allows for an even better processing quality.



Restoration Suite

RESTORATION

96 kHz

OPTIONAL

DeNoise

DeNoise removes broadband noise, from tape hiss to static environmental noise. DeNoise is fingerprint-based and offers manual adjustment for very precise and predictable processing results.

Note: DeNoise is included with PowerCore FireWire, mkII and Express.



DeScratch

DeScratch employs unique patented technology that eliminates clicks, scratches and even long disturbing drop outs. DeScratch is perfect for removing extreme impulsive-type errors in digital signals or scratched vinyl recordings. At last it's possible to eliminate extremely large scratches without audible artifacts.



DeCrackle

DeCrackle removes artifacts ranging from 1 to 20 samples long. Crackles typically manifest themselves as constant surface noise, similar to what you would hear in the background of a record. DeCrackle has an audition feature, which can be used to playback only the noise that has been removed from the signal.



DeThump

DeThump – DeThump is designed to eliminate low frequency pulses. Combined with the other Restoration Suite plugs, the handling of impulsive type degradation errors is also greatly enhanced. The DeThump algorithm targets, finds and derives waveform estimates of the thump and then eliminates it by subtraction. Multiple estimates are averaged and combined using simple cross-fades. With DeThump it is now possible to deal with strong impulsive errors of up to 12000 samples at 44.1 kHz sampling rate in length, without audible artifacts.



DeClick

DeClick repairs crackle and clicks with an extremely easy and fast user interface. The Audition feature allows monitoring of the removed signal parts for optimal results. In combination with DeScratch, small and large artifacts can be reduced dramatically in just one pass.



PowerCore FireWire, PCI mkII and Express also include DeNoise

UnWrap Stereo to 5.1 Conversion

SYSTEM 6000 ALGORITHM 96 kHz OPTIONAL

This full version mastering and film up-converter algorithm offers a high level of sophistication with unprecedented control and resolution. An abundance of parameters facilitates the conversion of stereo and LtRt sources to 5.1 while remaining faithful to the original mix. It is the world's primary high resolution up-conversion plug-in, and with its wealth of controls UnWrap™ is a benchmark in film and music production. Whether you lack time to do a conventional 5.1 mix or a multitrack source simply doesn't exist – UnWrap™ facilitates smooth and fast stereo to 5.1 up-conversion.

Once processed, the 5.1 output can be subsequently down-mixed to stereo again with no sonic penalties. Take a preset tour to spark your creativity, or start a new up-mix from scratch. Processing is double precision, capable of running at any sample rate between 44.1 and 96 kHz.

UnWrap includes customized up-conversion presets for film production and music mastering and comes with settings to complement it all.



POWERCORE PRO TOOLS HD

Features

- ▶ Transparent up-conversion from stereo to 5.1, and from LtRt to 5.1 ▶ World's primary high-resolution up-conversion algorithm
- ▶ Precision aligned outputs for subsequent down-mix ▶ EQ and contour styles for center and surround channels optimization and control
- ▶ Additive, perfect down-mix and PONR presets included

DVR2 Digital Vintage Reverb

SYSTEM 6000 ALGORITHM 96 kHz OPTIONAL

DVR2 is a pristine legacy reverb with a true and genuine vintage flavor. It is extremely well-suited for mixes where the reverb itself cries out to be part of the mix.

DVR2 is the most precise EMT250 emulator to date, perfect for both studio and live use. It presents fine-tuned qualities of the original processor such as sweet modulation, spectral balance, spaciousness and saturation. It also emulates its predecessor in the way parameters interact for different settings.

Using the Vintage Reset function, your sound will be close to a well preserved EMT250. Engaging the High resolution parameters, you can lower the noise, extend the bandwidth, and exaggerate or back off the amount of chorusing.



POWERCORE PRO TOOLS HD

Features

- ▶ A full scale System 6000 reverb for your DAW – it's the real thing ▶ The most precise EMT250 emulation. With the Vintage Reset function you can even emulate its artifacts ▶ Parameter interaction and editing range are emulated from the EMT250 ▶ High resolution parameters with lowered noise floor ▶ Focus Fields for easy preset tweaking and navigation ▶ Built-in preset converter – seamless import of DVR2 presets from System 6000

NonLin2 Stereo Effects Reverb

SYSTEM 6000 ALGORITHM 96 kHz OPTIONAL

NonLin2 is an effects reverb, which differs from the traditional natural sounding TC reverbs. NonLin2 is capable of generating compact vocal ambience, percussive and dramatic drum sounds, reverse reverbs and completely new "twisted" effects.

Featuring an amplitude envelope that is capable of rendering an untriggered gated reverb and a 'twist' parameter, which can radically alter the sound, this plug-in offers you a serious advantage over other gated reverbs.

The easy-to-tailor and compact room-feel that this reverb adds to any lead vocal will set your mixes apart. As a producer or studio engineer, you'll be delighted by the creative power that this master tool delivers and it won't be long before you wonder how you coped without it.



POWERCORE PRO TOOLS HD

FEATURES

- ▶ A true System 6000 reverb for your DAW. A 1:1 port of the algorithm, no emulation, no sampling – the real thing ▶ Envelope – Great flexibility, delivers gated reverbs without a trigger ▶ Reverb with a 'twist' – the 'twist' feature adds unique creative possibilities ▶ Presets – NonLin2 comes with fully customizable presets ▶ Focus Fields for easy preset tweaking and navigation
- ▶ Built-in preset converter – seamless import of NonLin2 presets from System 6000

VSS3 Stereo Source Reverb

SYSTEM 6000 ALGORITHM 96 kHz OPTIONAL

VSS3 is the reverb that finally brought the effect out of the 1980's. The algorithm was researched and fine-tuned by TC engineers over a period of several years, and represents a true technology breakthrough. With its great sound, new possibilities and wide editing range, VSS3 has become an industry standard in demanding production, and can be heard on thousands of albums and films.

In this version, the algorithm takes your PowerCore or Pro ToolsHD hardware to the limit to gain unprecedented control over image depth, localization and spatialization. Similar to the chaotic response of a natural room, the VSS3 is not causal, and you will soon appreciate the authentic feel it adds to a mix. When you become an addict, use several instances of VSS3 to create truly stunning sound images by taking advantage of source based processing on individual instruments and voices. Perfect imaging for your audio sources, perfect integration with your audio workstation.



POWERCORE PRO TOOLS HD

Features

- ▶ Source based design for more character and better localization ▶ Chaotic response like a real room ▶ Extremely wide editing range and "story telling capability" ▶ Many hundred industry standard presets available ▶ Fully mono compatible: A mix doesn't become dry in mono ▶ Piano-correctness. Modulation is not necessary ▶ Extremely wide dynamic range ▶ Focus Fields for easy preset tweaking and navigation ▶ Built-in preset converter – import VSS3 presets from System 6000 ▶ Dedicated presets available for music, film and post

MD3 Stereo Mastering

The MD3 Stereo Mastering package for PowerCore includes two algorithms, MD3 Multiband Dynamics and BrickWall Limiter, and allows you user to take advantage of multiband processing and precision limiting at its best. For stereo and single sources, this package brings professional production and mastering possibilities to the realm of DAWs, and integrates smoothly with serious music and film editing applications.



MD3 Multiband Dynamics

SYSTEM 6000 ALGORITHM 96 kHz OPTIONAL

MD3 is a high-end mastering tool that offers dual mono and stereo dynamics processing in three frequency bands. By offering a true side-chain split structure, MD3 is also capable of demanding mono material compression/limiting on two separate channels, not found in other multi-band dynamics processors. In fact, M and S components of a stereo signal can be processed separately and provide even more control making full use of the Spectral Stereo Enhancer.

Features

- ▶ Three band Expander and Compressor
- ▶ Limiter and Soft Clip functions
- ▶ Use on Dual Mono sources or Stereo signals
- ▶ Four band Parametric EQ
- ▶ MS mode for advanced image controlling
- ▶ 48 bit, fixed point, hi-res processing

Brickwall Limiter

SYSTEM 6000 ALGORITHM 96 kHz OPTIONAL

BrickWall Limiter is a stereo/dual mono limiter with new features and technology. Today, clipping and maximizing in production and mastering are being exploited to an extent where most rock and pop releases generate early listening fatigue. Distortion is generated in CD players and data reduction codecs because of mediocre processing and level control. The BrickWall Limiter is designed to adapt to the signal, investigate if the signal will create downstream distortion problems – and to remove this hazard if so decided.

Features

- ▶ Low distortion, precision Limiter
- ▶ Detects if signal is contaminated with OdBFS+ peaks
- ▶ Prevents downstream distortion from being generated
- ▶ 3 times up-sampled processing
- ▶ 48 bit, fixed point, hi-res processing

Reverb and Dynamics

MINT™ – Meta Intuitive Navigation Technology

We've gone to great length to rethink the way people work with audio. Often you spend more time tweaking a bunch a parameters and presets, and less time just listening and responding intuitively to what you hear. We want to change that, and for that reason we've invented MINT™ – Meta Intuitive Navigation Technology.

MINT™ is a design and programming philosophy that transcends traditional “UI thinking”, and it enables you to respond fast, intuitively and with total control.



Fabrik R – 4 new TC reverbs in one

REVERB 96 kHz OPTIONAL

Fabrik R combines four new TC algorithms in one single plug-in. Thanks to Meta Intuitive Navigation Technology (MINT™) it is a breeze to find the sound you're hearing inside your head. If you want to apply a “live” vibe to your vocals and instruments, use the Live Reverb. For vocals that need an even “larger” quality, choose the Hall Reverb. For that sound of the past as well as for drums and percussion, apply the Plate Reverb. If you're working with guitars try the Club Reverb, which also works great with vocals. Within each reverb you'll find it very easy to adjust any setting to your own taste. You won't waste time with nitty-gritty preset adjustments – all you really have to worry about, is using your ears.

Fabrik C – channel strip par excellence

CHANNEL STRIP 96 kHz OPTIONAL

The Fabrik C is a full-blown EQ, De-Esser and Compressor in one single plug-in – in short, the Fabrik C has all the qualities of a channel strip. With Meta Intuitive Navigation Technology (MINT™) you have total control of all the parameters, using only a few dedicated knobs. The EQ is a 4-band parametric EQ with high/low-pass filters – choose between 4 different filter types. Based on no-nonsense design, the de-esser is based on one fader that gives you total control. Unlike other compressors, the Fabrik C comes with an inbuilt 3-band intelligent compressor. But of course you can also choose the more common technique and switch to full-band compressor mode. Use the Fabrik C as an insert on your channels – it's probably one of the best and most optimized tools you can use for that job.

Access | Virus PowerCore

– virtual synth and multi-fx processor

SYNTHESIZERS 96 kHz OPTIONAL

With VirusPowerCore your native studio software will be on overdrive. It is based on the award winning Virus Engine and comes both* as a single license, offering up to four plug-in instances on one DSP, and as a multi DSP license allowing the Virus to be instanced on all PowerCore DSPs simultaneously. With 16 voices and three oscillators, two parallel multimode filters and extensive modulation matrix, the VirusPowerCore is more than just a virtual analog synth: The effects section alone would justify calling this plug-in a multi-effects processor. VirusPowerCore can be used as a VST Instrument for Windows or Mac and as an AU plug-in.

**Single and multi DSP license options*

Novation | V-Station PowerCore

– virtual analog synthesizer

SYNTHESIZERS 96 kHz OPTIONAL

The V-StationPowerCore is built on the award winning K-Station from Novation. This awesome plug-in has 3 powerful oscillators with all the classic waveforms and a sine wave for those sub-bass grooves. Other key elements are liquid analog filters, 8-voice polyphony per instance, 6 simultaneous FX per instance and phatt sounds only found in a genuine Novation synth. All the primary sound-shaping controls are available on the main screen and there are 3 additional screens with tons of possibilities. There's an arpeggiator with programmable speed, sync and sweep range within each instance.

Tube-Tech CL 1B – emulation redefined

EMULATION OPTIONAL

Emulation is being redefined with the Tube-Tech CL 1B plug-in. The CL 1B plug-in is based upon highly advanced component emulation technology, and brings the legendary analog sound of the CL 1B compressor/limiter to the PowerCore platform. The CL 1B uses a carefully crafted algorithm, so efficient it allows the use of up to 2 instances in stereo at 44.1 kHz or 1 instance in stereo at 96 kHz per DSP chip on 2nd generation PowerCore hardware (Compact, FireWire, Express, PCI mkII). The CL 1B plug-in is compatible with all types of PowerCore hardware.

Vocal Enhancer

ENHANCER 96 kHz OPTIONAL

The Noveltech Vocal Enhancer gives your vocal recordings an unprecedented crispness, depth and clarity thanks to Noveltech's patented Intelligent Adaptive Filtering technology. As it constantly adapts to the source, the results are way superior to static processing and conventional Enhancers: the sound remains natural, even when applying way more than just a little.

Note: Distributed by www.noveltechaudio.com (downloadable)

VoiceDoubler – virtual voices, real results

VOICE TOOLS 96 kHz OPTIONAL

Give your voice a break! With the VoiceDoubler plug-in from TC-Helicon, doubling a chorus hook, an important lyric, or the whole outro can now be done instantly without the tedium of matching performances and multitracking a human singer. TC-Helicon's ultra-realistic pitch detection and humanizing algorithms make it sound convincingly real. Included in the plug-in is the μ Mod (micromod) block supplying pristine emulations of popular microshift, chorus, flange and pitch feedback effects that can be layered on top of the virtual doubled voices. It's easy to use too; realistic presets and master controls contribute to its time- and voice-saving benefits.

Harmony4 – virtual voices, real results

VOICE TOOLS 96 kHz OPTIONAL

The demanding producer, engineer, and songwriter can save time and exercise their creative options using Harmony4 to create exciting new harmony parts after the singer has left, fatten existing harmony tracks and create memorable vocal special effects. The sonic difference lies in TC-Helicon's research into humanization algorithms and the accuracy and speed of the patent-pending pitch detection. Offering unsurpassed realism with a choice of automatic or MIDI-driven arrangement methods and extensive editing possibilities, Harmony4 creates spectacular results. Whether you require a lead plus parallel harmony or a giant multi-voice stack, Harmony4 is the essential vocal tool.

Intonator HS – vocal intonation correction

VOICE TOOLS OPTIONAL

The TC-Helicon Intonator HS for PowerCore fixes intonation problems in vocals on the fly, saving producers hours of recording and editing time. The plug-in utilizes the latest intonation correction technology also found in TC-Helicon's hardware products and delivers very natural sounding results. The user interface is straight-forward and easy-to-use with a real-time pitch and processing display. For creative applications, the maximum pitch correction range is +/- 600 Cents, even allowing you to force a melody to one note, if you like. Additionally, an innovative adaptive Low-Cut Filter removes unwanted low frequency rumble and noise – without making the voice sound thin.

VoiceModeler – voice morphing tool

VOICE TOOLS OPTIONAL

VoiceModeler utilizes TC-Helicon's unique technology to alter the sound of a voice completely. The real-time process can turn thin vocals into throaty ones – or even transform a male into a female voice. Now, one singer can have multiple Voice Personalities – and a convincing choir sound featuring different voices can be built from one source sound. VoiceModeler's Resonance and Breath features combined with the Spectral features can be used to subtly enhance the sound of a vocal. It will make it crisper, give it slightly more body or create a breathy intimate sound – or even all at the same time.



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POWERCORE PRO TOOLS HD



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Sony Oxford Inflator – tube emulated dynamics processor

SONY OXFORD TOOLS 96 kHz OPTIONAL

The Inflator is a unique plug-in that can provide an increase in the apparent loudness of almost any program, without obvious loss of quality or audible reduction of dynamic range, yet avoiding damaging increases in the peak level of the signal.



POWERCORE

Sony Oxford EQs – sony oxford eq suite from the OXF-R3

SONY OXFORD TOOLS 96 kHz OPTIONAL

Sony Oxford EQs deliver unparalleled quality and flexibility with very musical results and extremely low noise and distortion – below -130 dB. The EQ & Filters plug-in is comprised of 5 different sections including HF and LF selectable to shelf.



POWERCORE

Sony Oxford Dynamics – full dynamics and compression from the OXF-R3

SONY OXFORD TOOLS 96 kHz OPTIONAL

Sony Oxford Dynamics is a plug-in bundle featuring a Channel Dynamics and a surround-capable Bus Compressor plug-in. The Dynamics section includes Compressor, Limiter, Gate and Expander with controls that have been optimized carefully for maximum flexibility within the intended specific use of that section.



POWERCORE

Sony Oxford TransMod – instrument accentuator & softener

SONY OXFORD TOOLS 96 kHz OPTIONAL

The Sony Transient Modulator is an application that allows the dynamic level of signals to be modified by the transients in the program material over time. The effect is to bring transient events in the program forwards, or push them into the background, so that the attacks of instruments can be accentuated or softened depending on settings.



POWERCORE

Sony Oxford Limiter – programme limiter

SONY OXFORD TOOLS 96 kHz OPTIONAL

Being used by many broadcasters and studios worldwide, the Oxford Limiter will deliver the loudest mix possible without clipping. It's unique enhance function takes it one step further, enhancing perceived loudness and adding the warmth like characteristics of 2nd harmonic distortion. It also comes with a good range of presets ranging from subtle to very aggressive.

Note: Distributed by www.sonyplugins.com (downloadable)

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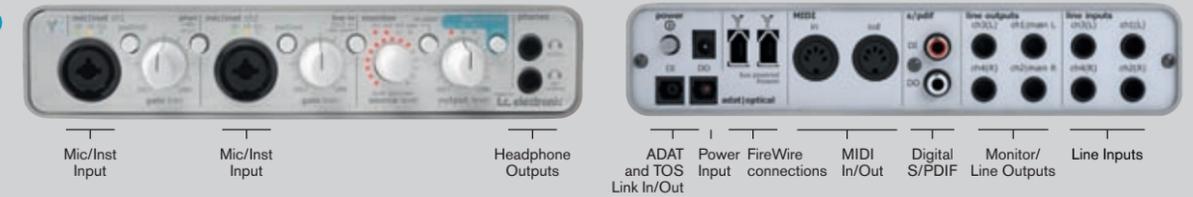
digitalkonnekt x32



Konnekt family comparison sheet

Feature	Konnekt 8	Konnekt 24D	Konnekt Live	Digital Konnekt x32	Studio Konnekt 48
Analog Inputs	2 IMPACT™ mic/inst/line 2l aux	2 IMPACT™ mic/ inst/line, 2 bal line	2 IMPACT™ mic/ inst/line, 2 bal line	-	4 IMPACT II™ MIC/INST 8 Analog Line bal/unbal
Analog outputs	2 bal	4 bal	4 bal/unbal selectable	2 bal	2 XLR digitally controlled analog outputs 8 LINE outs with surround support 2 separate channels for headphones
AES I/O	-	-	-	8	-
S/PDIF I/O	2	2	2	8	2
ADAT/ TOS	-	8 In/Out / 2 In/Out	8 I/O / 2 I/O	8 I/O / 6 I, 4 O	8 96kHz SMUX I/O / 4 I/O
MIDI I/O	Yes	Yes	Yes	-	Yes
Headphone out	6/4 mixer	2	2	1	2, with individual source and level control
Input meter	Yes	3 segments, 2 channels	3 segments, 2 channels	1 led signal indicator, 24 channels	6 segments, 12 channels
DSP mixer / router	-	14/6 channels Double precision summing mixer	14/6 channels Double precision summing mixer	16/16 flexible bit-transparent router	24/8 channels Double precision summing 56bit internal processing mixer
DSP Effects	Yes	Fabrik C Fabrik R Tuner	Fabrik C Live Fabrik R Live Tuner RIAA filter	-	Fabrik C Studio Fabrik R Studio Tuner Speaker management Bass management
Routing DSP effects to outputs	-	-	Yes	-	Yes
Assignable light ring	-	Yes including reverb level/ decay	Yes, including reverb level/ decay and MIDI control	-	Yes, on the remote, including reverb level/decay and MIDI control
Programs/scenes	-	3	3	4	3
Native Plug-ins	-	Assimilator Konnekt, Integrator	Assimilator Konnekt ResFilter Integrator	Integrator	Assimilator Konnekt ResFilter Integrator
VST, AU compatible	-	Yes	Yes	Yes	Yes
Connection	FireWire	FireWire	FireWire	FireWire	FireWire
JetPLL jitter elimination technology	Yes	Yes	Yes	Yes	Yes, with Clock Recovery
Max samplerate	192	192	192	192	192
Turntable integration	-	-	Yes. With special included cable and selectable RIAA curves	-	-
DAW FireWire channels	8 (4x4)	24 (12x12)	24 (12x12)	32 (16x16)	48 (24x24)
Included host	Cubase LE	Cubase LE	Ableton Live Lite 6 TC Edition	-	-
Design	½ rack studio/mobile design	½ rack studio/mobile design	½ rack mobile stage-ready design with rubber enclosure	19" full rack studio design	19" full rack studio design
Included Remote	-	-	-	-	Yes, Studio Kontrol desktop remote

konnekt 24D



konnekt live



Digital Inputs and Outputs

Connector (S/PDIF)	RCA Phono, 75 Ohm
Formats (S/PDIF and TosLink)	S/PDIF (24 bit), IEC 958, Pro-status bits
Connector (ADAT® or TosLink)	Optical Pipe
Format (ADAT®)	8-ch. @ 48 kHz, 4-ch. SMUX @ 96 kHz
Firewire	IEEE 1394a, S400, IEC 61883
Digital IO Engine	TC DICE II, handling all IO formats
Lock and Jitter	
Internal/External Sample Rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz / 43 to 193 kHz, jitter rejection at all rates
Jitter Rejection Engine	JET™ technology in TC DICE II
Jitter Rejection Filter	<-3 dB @ 10 Hz, <-100 dB @ 600 Hz
DIO Interface Jitter	< 1 ns peak, BW: 700 Hz to 100 kHz
AD/DA Conversion Jitter	< 42 ps RMS, BW: 100 Hz to 40 kHz
Digital Output Phase	< 0.5 % of sample period

(stand alone and across network)	
Input Slip Sample Tolerance (all DIs)	+50 % to -50 % of sample period
Processing Delay DIO @ 96/48 kHz	0.15/0.3 ms
Frequency Response DIO	DC to 23.9 kHz ± 0.01 dB @ 48 kHz
Line Inputs Channel 1, 2, 3, 4	
Connectors	1/4" Phone Jack (balanced)
Impedance, Bal/Unbal	20 kOhm/25 kOhm
Full Scale Input Level @ 0 dBFS	+13 dBu
THD+N	<-100 dB (0.001%) @ 1 kHz, -1 dBFS
SNR	>111 dB(A), >108 dB, 20 Hz to 20 kHz
Freq. Response	+0/-0.5 dB, 20 Hz to 20 kHz
Crosstalk	<-100 dB, 20 Hz to 20 kHz

ADC	
A to D Conversion	24 bit, 128 x oversampling bitstream
A to D Delay	0.68 ms / 0.63 ms @ 44.1 kHz / 48 kHz
Mic. Inputs Channel 1, 2	
Connectors	Neutrik Combo (XLR)
Sensitivity Full Range Pad on/off	-10/+10 dBu <-> -52/-32 dBu
Total Preamp gain	62 dB
Impedance, Pad on/off	2000/1300 ohm
NF @ Rg = 150 ohm, Max. Gain	< 4 dB
EIN @ Rg = 150 ohm, Max. Gain	<-127 dBu
THD+N, Min. Gain	<-100 dB (0.001%) @ 1 kHz, -1 dBFS
SNR, Min. Gain	>109 dB(A), >106 dB, 20 Hz to 20 kHz

Inst. Inputs Ch. 1, 2	
Connectors	Neutrik Combo (1/4" Phone Jack)
Sensitivity Range	-25 dBu <-> +17 dBu
Total Preamp gain	42 dB
Impedance	1 Mohm
THD+N, Min. Gain	<-100 dB (0.001%) @ 1 kHz, -1 dBFS
SNR, Min. Gain	>107 dB(A), >104 dB, 20 Hz to 20 kHz
Crosstalk	<-100 dB, 20 Hz to 20 kHz

Monitor/Line Outputs Ch. 1, 2, 3, 4

Connectors	1/4" Phone Jack. Ground sensing design
Impedance	Balanced/unbalanced digital output switch *)
Level Range (Ch. 1,2)	-40 dBu <-> +12 dBu (analog gain scale)
Fixed Full Scale Range	+12 dBu
(Ch. 3,4)	<-94 dB (0.002%) @ 1 kHz, -1 dBFS
THD+N	>111 dB(A), >108 dB, 20 Hz to 20 kHz
SNR	+0/-0.1 dB, 20 Hz to 20 kHz
Freq. Response	<-100 dB, 20 Hz to 20 kHz
Crosstalk	

DAC	
D to A Conversion	24 bit, 128 x oversampling bitstream
D to A Delay	0.70 ms / 0.65 ms @ 44.1 kHz / 48 kHz

Headphones Output Ch. 1, 2	
Connectors	2 x 1/4" Phone Jack (Stereo)
Impedance	80 Ohm
Gain Level Range	-80 dBu <-> +16 dBu @ 300 ohms
(analog gain scale)	
THD+N	<-94 dB (0.002%) @ 1 kHz, -1 dBFS
SNR	>103 dB(A), >100 dB, 20 Hz to 20 kHz
Freq. Response	+0/-0.1 dB, 20 Hz to 20 kHz
Crosstalk	<-100 dB, 20 Hz to 20 kHz
Power @ 40 Ohm Load	200mW
Power @ 600 Ohm Load	93mW

EMC	
Complies With	EN 55103-1 and EN 55103-2, FCC part 15, Class B, CISPR 22, Class B
Safety	
Certified To	IEC 60065, EN 60065, UL6500 and CSA E60065 CSA FILE #LR108093

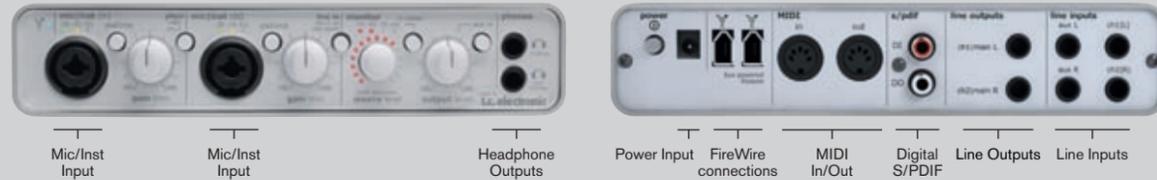
Environment	
Operating Temperature	32° F to 122° F (0° C to 50° C)
Storage Temperature	-22° F to 167° F (-30° C to 70° C)
Humidity	Max. 90 % non-condensing

Control Interface	
MIDI	In/Out: 5 Pin DIN
Firewire (DAW)	IEEE 1394a, IEC 61883

General	
Dimensions	9.5" x 1.75" x 9" (241.5 x 44 x 226 mm)
Weight	3.3 lb. (1.5 kg)
Finish	Acrylic front panel. Plated and coated steel back plate. Anodized aluminum cover.
PPM Meter (Ch. 1,2)	3 LED's pr. channel
Power Supply (Included)	12V DC, Adapter for 90 to 240 VAC, 50 to 60 Hz (auto select)
Firewire Bus Powered	8 to 30 VDC
Power Consumption	<14 W
Warranty Parts and labor	1 year

*) Konnekt LIVE only

konnekt 8



Digital Inputs and Outputs		Monitor/Line Outputs Ch. 1, 2	
Connector (S/PDIF)	RCA Phono, 75 Ohm	Connectors	1/4" Phone Jack. Ground sensing design.
Formats (S/PDIF)	S/PDIF (24 bit), IEC 958, Pro-status bits	Impedance	100 Ohm
Firewire	IEEE 1394a, S400, IEC 61883	Level Range (Ch. 1,2)	-40 dBu \diamond +12 dBu (analog gain scale)
Digital IO Engine	TC DICE II, handling all IO formats	Fixed Full Scale Range	+12 dBu
Clock and Jitter		(Ch. 3,4)	< -94 dB (0.002%) @ 1 kHz, -1 dBFS
Internal/External Sample Rates	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz / 43 to 193 kHz, jitter rejection at all rates	THD+N	>11 dB(A), >108 dB, 20 Hz to 20 kHz
Jitter Rejection Engine	JET™ technology in TC DICE II	SNR	+0/-0.1 dB, 20 Hz to 20 kHz
Jitter Rejection Filter	< -3 dB @ 10 Hz, < -100 dB @ 600 Hz	Freq. Response	< -100 dB, 20 Hz to 20 kHz
DIO Interface Jitter	< 1 ns peak, BW: 700 Hz to 100 kHz	Crosstalk	
AD/DA Conversion Jitter	< 42 ps RMS, BW: 100 Hz to 40 kHz	DAC	
Digital Output Phase	< 0.5 % of sample period	D to A Conversion	24 bit, 128 x oversampling bitstream
(stand alone and across network)		D to A Delay	0.70 ms / 0.65 ms @ 44.1 kHz / 48 kHz
Input Slip Sample Tolerance (all DIs)	+50 % to -50 % of sample period	Headphones Output Ch. 1, 2	
Processing Delay DIO @ 96/48 kHz	0.15/0.3 ms	Connectors	2 x 1/4" Phone Jack (Stereo)
Frequency Response DIO	DC to 23.9 kHz \pm 0.01 dB @ 48 kHz	Impedance	80 Ohm
Line Inputs Channel 1, 2, 3, 4		Gain Level Range	-80 dBu \diamond +16 dBu @ 300 ohms (analog gain scale)
(Line 1+2 recordable + AUX 1+2)		THD+N	< -94 dB (0.002%) @ 1 kHz, -1 dBFS
Connectors	1/4" Phone Jack (balanced)	SNR	>103 dB(A), > 100 dB, 20 Hz to 20 kHz
Impedance, Bal/Unbal	20 kOhm/25 kOhm	Freq. Response	+0/-0.1 dB, 20 Hz to 20 kHz
Full Scale Input Level @ 0 dBFS	+13 dBu	Crosstalk	< -100 dB, 20 Hz to 20 kHz
THD+N	< -100 dB (0.001%) @ 1 kHz, -1 dBFS	Power @ 40 Ohm Load	200mW
SNR	>111 dB(A), >108 dB, 20 Hz to 20 kHz	Power @ 600 Ohm Load	93mW
Freq. Response	+0/-0.5 dB, 20 Hz to 20 kHz	EMC	
Crosstalk	< -100 dB, 20 Hz to 20 kHz	Complies With	EN 55103-1 and EN 55103-2, FCC part 15, Class B, CISPR 22, Class B
ADC		Safety	
A to D Conversion	24 bit, 128 x oversampling bitstream	Certified To	IEC 60065, EN 60065, UL6500 and CSA E60065 CSA FILE #LR108093
A to D Delay	0.68 ms / 0.63 ms @ 44.1 kHz / 48 kHz	Environment	
Mic. Inputs Channel 1, 2		Operating Temperature	32° F to 122° F (0° C to 50° C)
Connectors	Neutrik Combo (XLR)	Storage Temperature	-22° F to 167° F (-30° C to 70° C)
Sensitivity Full Range Pad on/off	-10/+10 dBu \diamond -52/ -32 dBu	Humidity	Max. 90 % non-condensing
Total Preamp gain	62 dB	Control Interface	
Impedance, Pad on/off	2000/1300 ohm	MIDI	In/Out: 5 Pin DIN
NF @ Rg = 150 ohm, Max. Gain	< 4 dB	Firewire (DAW)	IEEE 1394a, IEC 61883
EIN @ Rg = 150 ohm, Max. Gain	< -127 dBu	General	
THD+N, Min. Gain	< -100 dB (0.001%) @ 1 kHz, -1 dBFS	Dimensions	9.5" x 1.75" x 9" (241.5 x 44 x 226 mm)
SNR, Min. Gain	>109 dB(A), >106 dB, 20 Hz to 20 kHz	Weight	3.3 lb. (1.5 kg)
Inst. Inputs Ch. 1, 2		Finish	Acrylic front panel. Plated and coated steel back plate. Anodized aluminum cover.
Connectors	Neutrik Combo (1/4" Phone Jack)	PPM Meter (Ch. 1,2)	3 LED's pr. channel
Sensitivity Range	-25 dBu \diamond +17 dBu	Power Supply (Included)	12V DC, Adapter for 90 to 240 VAC, 50 to 60 Hz (auto select)
Total Preamp gain	42 dB	Firewire Bus Powered	8 to 30 VDC
Impedance	1 Mohm	Power Consumption	<14 W
THD+N, Min. Gain	< -100 dB (0.001%) @ 1 kHz, -1 dBFS	Warranty Parts and labor	1 year
SNR, Min. Gain	>107 dB(A), >104 dB, 20 Hz to 20 kHz		
Crosstalk	< -100 dB, 20 Hz to 20 kHz		

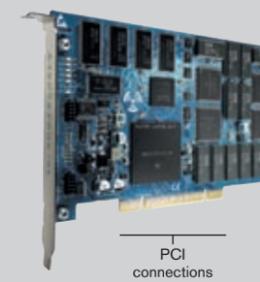
POWERCORE X8 SYSTEM REQUIREMENTS	POWERCORE X8 SPECIFICATIONS
MAC OS	8 x Motorola 56367 DSP / 150 MHz
Laptop/desktop, G4/G5/Intel, 1 GHz or better	512 k Word SRAM per DSP
512 MB RAM or more	1x 266 MHz Motorola 8245 PowerPC
Mac OS X (10.4 or higher)	16 MB SDRAM on board.
One available Firewire port (400 Mbit IEEE 1394)	Power Requirements typically lower 10 W. Peak max. 20 W.
17" color monitor (resolution 1024 x 768) or higher recommended.	Operating temperature: 0° C – 40° C (32° F – 104° F)
Any VST or AudioUnits compatible recording software (Cubase SX, Logic, Nuendo, Bias Peak, Live, Digital Performer), Pro Tools with Expansion VST-RTAS wrapper (optional)	Storage temperature: -30° C – 80° C (-22° F – 176° F)
Any sound system supported by the host application	Humidity: max. 90%, non-condensing
60 Megabytes of available hard disk space	Included Plug-Ins:
Internet Connection for product registration	24/7-C
WINDOWS	Character™
Laptop, Pentium 4, 1.4 GHz or better	Chorus-Delay
512 MB RAM or more	ClassicVerb
One available Firewire port (400 Mbit IEEE 1394)	EOsat Custom
Windows XP	Filtroid
17" color monitor (resolution 1024x768) or higher recommended.	MasterX3
Any VST-compatible application (Cubase, WaveLab, Nuendo, Samplitude, Sonar, Live and RTAS/Pro Tools with Expansion VST-RTAS wrapper (optional))	MegaReverb
Any sound system supported by the VST application	PowerCore 01
60 Mb of available hard disk space	Tubifex
Internet connection for product registration	Vintage CL
	VoiceStrip
	Dynamic EQ
	DeNoise

**POWERCORE
FIREWIRE**



POWERCORE FIREWIRE SYSTEM REQUIREMENTS	POWERCORE FIREWIRE SPECIFICATIONS
<p>MAC OS Laptop/desktop, G4/G5/Intel, 1 GHz or better 512 MB RAM or more Mac OS X (10.4 or higher) One available Firewire port (400 Mbit IEEE 1394) 17" color monitor (resolution 1024 x 768) or higher recommended. Any VST or AudioUnits compatible recording software (Cubase SX, Logic, Nuendo, Bias Peak, Live, Digital Performer), Pro Tools with Expansion VST-RTAS wrapper (optional) Any sound system supported by the host application 60 Megabytes of available hard disk space Internet Connection for product registration</p> <p>WINDOWS Laptop, Pentium 4, 1.4 GHz or better 512 MB RAM or more One available Firewire port (400 Mbit IEEE 1394) Windows XP 17" color monitor (resolution 1024x768) or higher recommended. Any VST-compatible application (Cubase, WaveLab, Nuendo, Samplitude, Sonar, Live and RTAS/Pro Tools with Expansion VST-RTAS wrapper (optional) Any sound system supported by the VST application 60 Mb of available hard disk space Internet connection for product registration</p>	<p>4 x Motorola 56367 DSP / 150 MHz 512 k Word SRAM per DSP 1x 266 MHz Motorola 8245 PowerPC 8 MB SDRAM on board. Power Requirements typically lower 10 W. Peak max. 20 W.</p> <p>Operating temperature: 0° C – 40° C (32° F – 104° F) Storage temperature: -30° C – 80° C (-22° F – 176° F) Humidity: max. 90%, non-condensing</p> <p>Included Plug-Ins: 24/7-C Character™ Chorus-Delay ClassicVerb EOsat Custom Filteroid MasterX3 MegaReverb PowerCore 01 Tubifex Vintage CL VoiceStrip Dynamic EQ DeNoise</p>

**POWERCORE
PCI MK II**



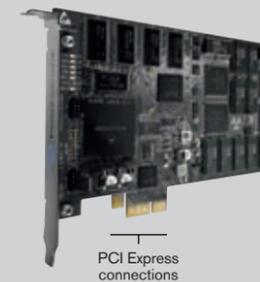
POWERCORE MKII SYSTEM REQUIREMENTS	POWERCORE MKII SPECIFICATIONS
<p>MAC OS Laptop/desktop, G4/G5/Intel, 1 GHz or better 512 MB RAM or more Mac OS X (10.4 or higher) One free PCI or PCI-X slot 17" color monitor (resolution 1024 x 768) or higher recommended. Any VST or AudioUnits compatible recording software (Cubase SX, Logic, Nuendo, Bias Peak, Live, Digital Performer), RTAS/ProTools with Expansion Any sound system supported by the host application 60 Megabytes of available hard disk space Internet Connection for product registration</p> <p>WINDOWS Pentium 4, 1.4 GHz or better 512 MB RAM or more One free PCI or PCI-X slot Windows XP 17" color monitor (resolution 1024x768) or higher recommended. Any VST-compatible application (Cubase, WaveLab, Nuendo, Samplitude, Sonar, Live and RTAS/Pro Tools with Expansion VST-RTAS wrapper (optional) Any sound system supported by the VST application 60 Mb of available hard disk space Internet connection for product registration</p>	<p>4 x Motorola 56367 DSP / 150 MHz 512 k Word SRAM per DSP 1x 266 MHz Motorola 8245 PowerPC 8 MB SDRAM on board.</p> <p>Operating temperature: 0° C – 40° C (32° F – 104° F) Storage temperature: -30° C – 80° C (-22° F – 176° F) Humidity: max. 90%, non-condensing</p> <p>INCLUDED PLUG-INS IN POWERCORE MKII (UNPLUGGED COMES WITHOUT PLUG-INS): 24/7-C Character™ Chorus-Delay ClassicVerb EOsat Custom Filteroid MasterX3 MegaReverb PowerCore 01 Tubifex Vintage CL VoiceStrip Dynamic EQ DeNoise</p>

**POWERCORE
COMPACT**



POWERCORE COMPACT SYSTEM REQUIREMENTS	POWERCORE COMPACT SPECIFICATIONS
<p>MAC OS Laptop/desktop, G4/G5/Intel, 1 GHz or better 512 MB RAM or more Mac OS X (10.4 or higher) One available Firewire port (400 Mbit IEEE 1394) 17" color monitor (resolution 1024 x 768) or higher recommended. Any VST or AudioUnits compatible recording software (Cubase SX, Logic, Nuendo, Bias Peak, Live, Digital Performer), Pro Tools with FXansion VST-RTAS wrapper (optional) Any sound system supported by the host application 60 Megabytes of available hard disk space Internet Connection for product registration</p> <p>WINDOWS Laptop, Pentium 4, 1.4 GHz or better 512 MB RAM or more One available Firewire port (400 Mbit IEEE 1394) Windows XP 17" color monitor (resolution 1024x768) or higher recommended. Any VST-compatible application (Cubase, WaveLab, Nuendo, Samplitude, Sonar, Live and Pro Tools with Expansion VST-RTAS wrapper (optional) Any audio interface supported by the host application 60 Mb of available hard disk space Internet connection for product registration</p>	<p>2 x Motorola 56367 DSP / 150 MHz 512 k Word SRAM per DSP 1x 266 MHz Motorola 8245 PowerPC 8 MB SDRAM on board. Power Requirements typically lower 10 W. Peak max. 20 W.</p> <p>Operating temperature: 0° C – 40° C (32° F – 104° F) Storage temperature: -30° C – 80° C (-22° F – 176° F) Humidity: max. 90%, non-condensing</p> <p>Included Plug-Ins: 24/7-C Character™ Chorus-Delay ClassicVerb EOsat Custom Filteroid MasterX3 MegaReverb PowerCore 01 Tubifex Vintage CL VoiceStrip</p>

**POWERCORE
EXPRESS**



POWERCORE POWERCORE EXPRESS SYSTEM REQUIREMENTS	POWERCORE EXPRESS SPECIFICATIONS
<p>MAC OS Laptop/desktop, G4/G5/Intel, 1 GHz or better 512 MB RAM or more Mac OS X (10.4 or higher) One free PCI Express (PCIe) slot 17" color monitor (resolution 1024 x 768) or higher recommended. Any VST or AudioUnits compatible recording software (Cubase SX, Logic, Nuendo, Bias Peak, Live, Digital Performer), Pro Tools with FXansion VST Any sound system supported by the host application Mouse or other pointing device 60 Megabytes of available hard disk space Internet Connection for product registration</p> <p>WINDOWS Pentium 4, 1.4 GHz or better 512 MB RAM or more One free PCI Express (PCIe) slot Windows XP 17" color monitor (resolution 1024x768) or higher recommended. Any VST-compatible application (Cubase, WaveLab, Nuendo, Samplitude, Sonar, Live and RTAS/Pro Tools with Expansion VST-RTAS wrapper (optional) 60 Mb of available hard disk space Internet connection for product registration</p>	<p>4 x Motorola 56367 DSP / 150 MHz 512 k Word SRAM per DSP 1x 266 MHz Motorola 8245 PowerPC 8 MB SDRAM on board.</p> <p>Operating temperature: 0° C – 40° C (32° F – 104° F) Storage temperature: -30° C – 80° C (-22° F – 176° F) Humidity: max. 90%, non-condensing</p> <p>INCLUDED PLUG-INS IN POWERCORE EXPRESS 24/7-C Character™ Chorus-Delay ClassicVerb EOsat Custom Filteroid MasterX3 MegaReverb PowerCore 01 Tubifex Vintage CL VoiceStrip Dynamic EQ DeNoise</p>

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