



Advanced Audio Interfaces

# Product Brochure

Studio | Live | Broadcast

# Your Sound. In the Studio. On the Road

Supercharge your workflow with DiGiGrid's range of network connected high definition recording interfaces and realtime DSP solutions!

The DiGiGrid range of advanced audio interfaces provides users with everything they need to record, produce and mix the largest of sessions. In the studio and on the road, the scalable, modular design provides unlimited freedom when choosing your ultimate audio interface. Whatever inputs or outputs you need, combine up to 16 DiGiGrid interfaces from our range to give you exactly what you need.

From capturing the perfect performance in crystal clarity, throughout the mix process and onto live performance, the DiGiGrid range of interfaces gives you everything you need for every creative process. Track in the studio with ultra-low latency and all your favourite plugins, or mix live sound with the same realtime processing and effects. DiGiGrid's Audio Interfaces featuring SoundGrid Technology provide you with the ultimate audio solution for studio and live.

Whatever you need in the studio or live, DiGiGrid delivers.





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# DiGiGrid in the Studio

## DiGiGrid IOS-XL

The DiGiGrid IOS-XL is the most comprehensive all-in-one solution for Native DAW users, ideal for both professional and personal audio production environments. With a built-in SoundGrid DSP server for plugin processing and a 4 port network switch, the IOS features 8 mic/line inputs with premium preamps, 8 line outputs, 2 headphone outputs, MIDI I/O, S/PDIF and AES inputs and outputs.

Need more I/O? A single Ethernet cable is all you need to connect additional DiGiGrid components to your Network. Fully integrated into the SoundGrid studio system, the IOS lets you mix and monitor in real time using hundreds of your favourite SoundGrid-compatible Waves and third-party plugins, with super-low latency.



## DiGiGrid Software in the Studio



### SoundGrid Studio Application

The SoundGrid Studio Application manages the SoundGrid network's hardware and software devices on your host computer.



### StudioRack

StudioRack is a plugin rack designed to run plugin chains, and gives you the choice of processing the plugins on your SoundGrid DSP server or your host computer's CPU.





- ▶ Compliant with the SoundGrid Studio ASIO/ Core Audio driver
- ▶ Built-in Extreme i7 SoundGrid DSP server
- ▶ 8 mic/line inputs, 8 line outputs,
- ▶ 2 Independent headphone outputs
- ▶ MIDI, S/PDIF and AES/EBU connectors
- ▶ Connects via a single Ethernet cable
- ▶ Quick-view front panel input metering
- ▶ High-definition ADC conversion
- ▶ Use Live or in the Studio



#### eMotion ST Mixer

Combined with the StudioRack plugin, eMotion ST gives you diverse monitoring options when you record, letting you and your artist monitor in near-zero latency while running hundreds of plugins.

#### DiGiGrid in the field...

### Henry Sarmiento: Recording in Ibiza with DiGiGrid



Henry Sarmiento heads up the idyllically situated SonicVistaStudios in Ibiza, where he has worked with the likes of Lady Gaga, 50 Cent, Akon, Ne-Yo, The Ting Tings, and many more. Summer looks like being a hectic one for the New York-born producer, but with a new collection of DiGiGrid audio interfaces in his inventory, things will be that little bit easier.

"DiGiGrid has the future on lockdown! The simple fact that you can add to your system as you grow is a very important detail when investing in studio equipment. With only a simple ethernet cable to expand is just amazing."



# DiGiGrid in the Studio

## DiGiGrid IOC

Perfect for the control room, the DiGiGrid IOC audio interface offers a range of connectivity options, including 2 mic / line inputs with premium preamps, 8 line inputs/outputs, 16 AES/EBU I/O and ADAT inputs/outputs, plus two powerful headphone outputs. With the IOC and a dedicated SoundGrid DSP server on your network, you will be able to run hundreds of SoundGrid-compatible Waves and third-party plugins, all fully integrated within your DAW of choice. Just plug the IOC into your SoundGrid network using a single Ethernet cable, and you will enter a new world of real-time tracking, mixing and monitoring, with extremely low latency.



### Your Sound Delivered By Our Design

DiGiGrid Interfaces feature high-definition, digitally controlled, premium microphone preamp designs based on the demanding experience of DiGiCo studio, live, theatre and broadcast markets. The wide -20/60 dB range and

padless, discreet topology delivers an ultra-low-noise, fully balanced, high-headroom design that results in a clean and transparent signal, fully revealing every detail of your track.



- ▶ Compliant with the SoundGrid Studio ASIO / Core Audio driver
- ▶ 2 mic/line inputs with premium preamps and 8 line inputs
- ▶ 8 line outputs and 2 headphone outputs
- ▶ 6 AES/EBU ins/outs, ADAT ins/outs
- ▶ Connects via a single Ethernet cable
- ▶ Quick-view front panel input metering
- ▶ High-definition ADC conversion

Adding to your existing recording setup with SoundGrid Connect

Do you already own an audio interface for your Mac or PC? Using Waves SoundGrid technology, you can easily add any of our DiGiGrid interfaces to your existing setup!

No need to change what you use... just add to it with any of our interfaces. And if you just need more DSP for running your Waves and other SoundGrid compatible plugins, just add the DiGiGrid DGS-XL for extra processing power!



## Expanding your studio system...

If you have a DiGiGrid studio system, it can easily be expanded using any of the range of our interfaces.

The IOX is perfect for those that need additional premium Mic Inputs to their system. Easily located in any space using a single network cable, the IOX allows users to capture 12 inputs with pristine clarity and detail.

The Desktop Series of interfaces are the ideal small modular interfaces for any SoundGrid network system, both in the studio and Live. Featuring simple intuitive analogue controls, they offer the same performance as their big-brother interfaces but at a fraction of the price. They may be small but have been designed and built with no compromises!



DiGiGrid D



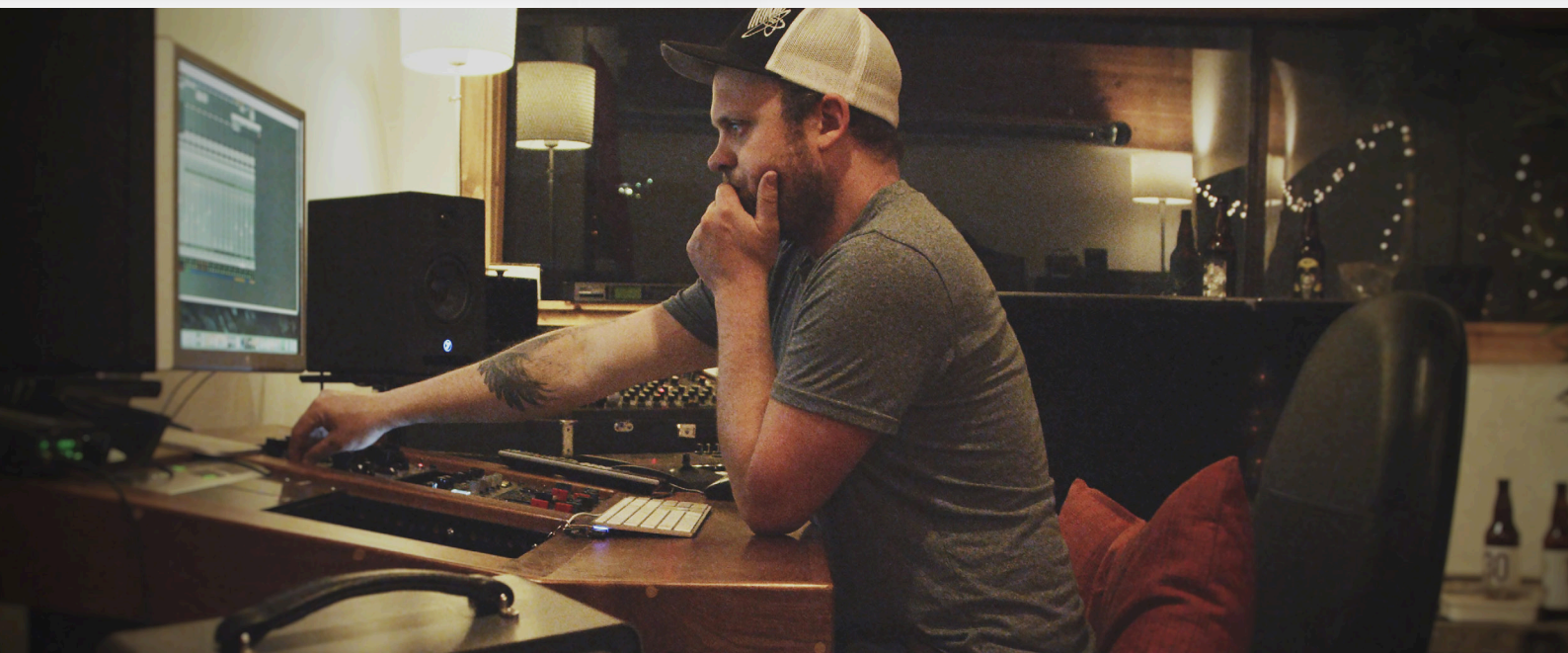
# DiGiGrid for ProTools HD

With limited interface options for ProTools HD systems, DiGiGrid provides a flexible solution for either replacing or expanding your current HD I/O setup.

The backbone of our HD system is the DLI... a 64 channel bridge between Avid DigiLink connectors and our networked SoundGrid world. This opens you up to use any of our range of rackmount or desktop interfaces with your Avid HD system. And if you need more DSP for your HD Native or HD rig, then adding a DGS-XL DSP server along side a DLI will allow you to run more real-time plugins!

The DLI also allows you to use your HD interfaces without having to have an HD core system - run your Omni I/O, 192, 96 or other compatible DigiLink interface with your native DAW with just an ethernet connection between the DLI and your computer.

DiGiGrid HD solutions give you the flexibility you have been missing.





# DiGiGrid DLI

DiGiGrid DLI is a networking hub that bridges Pro Tools and SoundGrid. With two DigiLink ports giving you as many as 64 digital inputs and outputs, the DiGiGrid DLI helps you get the most out of your existing Pro Tools system.



Need to add DSP to your HD system for Waves plugins?

Combining the DLI with the DGS-XL provides the capability to run hundreds of Waves and compatible SoundGrid Plugins within your ProTools HD environment. Utilising the StudioRack plugin chainer within your PTHD Session, insert up to 64 processing paths directly into your session, with each path hosting up to 8 real-time plugins. That's more than 500 extra plugins without stressing your existing setup!

## DiGiGrid DLI has two modes, I/O and SGP:

- ▶ In I/O mode, DLI bridges your Pro Tools system with DiGiGrid I/Os and SoundGrid DSP servers. The Pro Tools system (HD/HDX or HD Native) continues to be your playback engine, while DLI appears as individual I/Os from which you can expand your studio: just connect additional DiGiGrid I/Os and offload your plugin processing to additional SoundGrid servers.
- ▶ In SGP mode, DLI bridges the DAW of your choice (Logic, Cubase, Nuendo, Ableton, Pro Tools Native, etc.) with SoundGrid applications and ASIO/Core Audio drivers, lets you control various DigiLink-compatible I/Os, and enables you to use a SoundGrid server to which you can offload your plugin processing.

## In both modes, a single Ethernet cable will enable you to connect your system to additional DiGiGrid I/Os.

Add a DiGiGrid DGS-XL SoundGrid DSP server to your DLI, and you will enjoy unequalled processing power, with more options for recording, monitoring and mixing in real time. With full plugin integration inside your DAW, the DLI + DGS-XL combo lets you run hundreds of Waves and third-party SoundGrid-compatible plugins with near-zero latency.

- ▶ 2 DigiLink ports allowing as many as 64 digital inputs and outputs
- ▶ Bridges Pro Tools HD/HDX and HD Native systems with SoundGrid
- ▶ Allows seamless use of various DigiLink-compatible I/Os with any native DAW
- ▶ Compliant with the SoundGrid Studio ASIO/Core Audio driver
- ▶ Compatible with SoundGrid Studio, MultiRack & LV1
- ▶ Connects via a single Ethernet cable

# DiGiGrid for Live

## DiGiGrid Live solutions - setting the standard for Live recording and real-time processing.

The flexibility, performance and reliability of our Live solutions have ensured that DiGiGrid products are now the standard tools for recording high channel count shows and real-time plugin processing.

MADI is standard on almost every live and broadcast digital mixing console, and the MGB, MGO and MGR interfaces allow recording of up to 128 channels @ 96k sampling rate\*. With network flexibility, adding a redundant recorder is as easy as plugging in another network cable - no need for expensive digital splits or duplicate systems.

Combining our MGB, MGO and MGR with the DGS-XL Extreme DSP Server adds real-time processing to the setup. Waves MutliRack SoundGrid offers the control over your plugin settings, while the DiGiGrid MADI Interfaces and SoundGrid Servers provide the hardware for processing up to 64 channels of real-time chains of plugins. And since this is all network based, you can even process audio and record at the same time.

\* 128 Channel recording at 96kHz requires 2 MGB / MGO, or an MGR

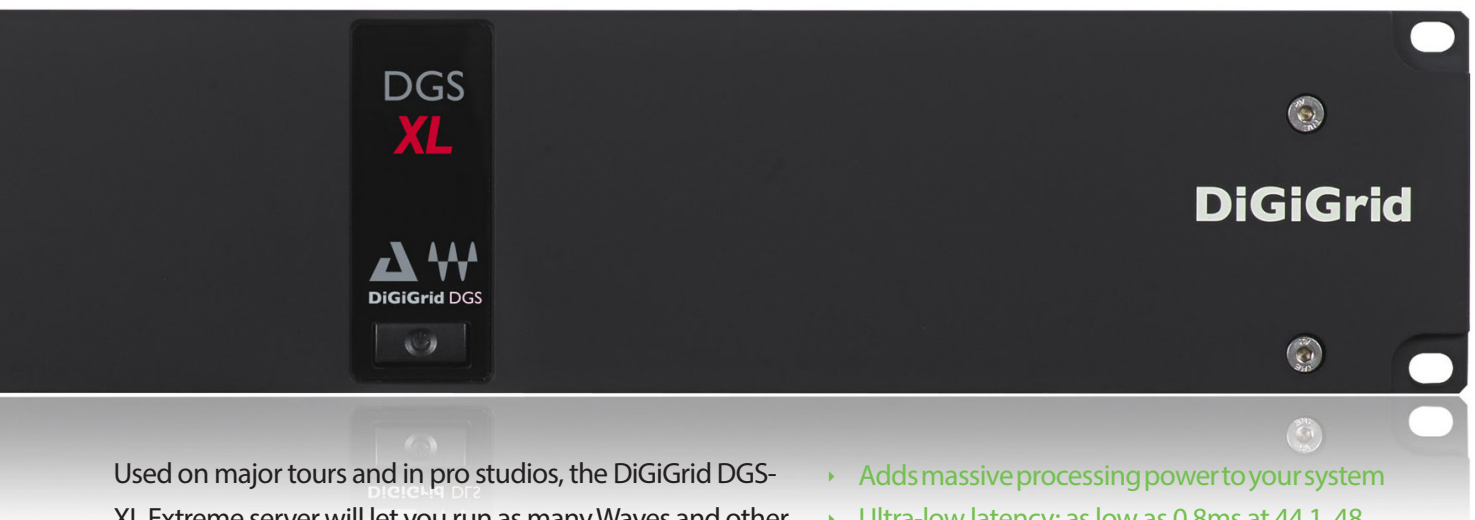






# DiGiGrid DGS-XL

This super-powerful Intel i7-based DSP unit will handle your heaviest mixes, processing up to hundreds of plugins in real time.



Used on major tours and in pro studios, the DiGiGrid DGS-XL Extreme server will let you run as many Waves and other SoundGrid-compatible plugins as you want, on as many channels as you've got, and give your live shows studio-grade sound. For example, you can throw plugins modelled on the world's top consoles on each and every channel, and basically make your mixer sound like a classic top-tier desk.

The DiGiGrid DGS-XL incorporates a 4 port PoE capable switch, perfect for Live applications where additional DiGiGrid Desktop and rackmount interfaces are going to be used.

- ▶ Adds massive processing power to your system
- ▶ Ultra-low latency: as low as 0.8ms at 44.1, 48, 88.2 & 96kHz
- ▶ 2U Rackmount Chassis
- ▶ i7 Extreme SoundGrid Server
- ▶ Integrated 4 port Network switch with PoE

# DiGiGrid for Live

## DiGiGrid IOX

This high I/O-count audio interface can be used as your main audio interface or as an extension to your system.



Featuring 12 mic/line inputs with premium preamps and 6 line outputs, DiGiGrid IOX delivers high-resolution recording and monitoring in the studio and the control room alike, with four headphone outputs allowing independent mixes for each musician.

With your IOX and a dedicated SoundGrid DSP server, you can run hundreds of SoundGrid-compatible Waves and third-party plugins, all fully integrated within your DAW of choice.

- ▶ 12 mic/line inputs with premium preamps
- ▶ Compliant with the SoundGrid Studio ASIO / Core Audio driver
- ▶ 6 line outputs, 4 headphone outputs
- ▶ Connects via a single Ethernet cable
- ▶ Quick-view front panel input metering
- ▶ High-definition ADC conversion

### DiGiGrid + LV1

If you're looking for a modular live mixing platform, then the DiGiGrid hardware is the ultimate solution for the Waves LV1 platform.

Every LV1 setup needs 2 things; A SoundGrid DSP server and networked I/O. The DiGiGrid DGS-XL and IOX units offer users the best value and performance of any SoundGrid interface available. Use two DGS-XL servers for fully redundant processing, and with DiGiGrid's class leading pre-amps and converters, the IOX remains the preferred choice for users looking to achieve the best results. And at the FOH end of the snake, the DiGiGrid IOC and D interfaces offer all the LV1 connectivity and performance any engineer could want.



# DiGiGrid MGB/MGO

The DiGiGrid MADI interfaces allow you to connect any coaxial (MGB) or optical (MGO) MADI-enabled device to the SoundGrid network.

Now you can record and playback up to 128 channels. In addition to simplifying your setup, the MGB + MGO interfaces enable recording to multiple computers simultaneously, for virtual soundcheck and backup.

Adding a DiGiGrid DGS-XL Server to your MGB or MGO allows you to process hundreds of Waves and compatible 3rd party SoundGrid plugins in real-time, with a super-low latency of just 0.8ms.

- ▶ MADI-to-SoundGrid interface
- ▶ Plug any MADI-enabled device into SoundGrid
- ▶ MGB coaxial (BNC) MADI connections
- ▶ MGO optical (LC) MADI connections
- ▶ Record, process\* and playback up to 128 channels
- ▶ Record to multiple computers simultaneously
- ▶ Compliant with the SoundGrid Studio ASIO / Core Audio driver
- ▶ MGO ships as multi-mode. Single-mode available as an upgrade.

\* Processing requires a DGS-XL or IOS-XL SoundGrid Server.





# DiGiGrid for Live

## DiGiGrid MGR

### The ultimate quad MADI recording interface

The DiGiGrid Rackmount Quad MADI Interface allows you to record up to 128 channels at 96kHz. Expanding on the DiGiGrid MGB and MGO interfaces, the MGR broadens the MADI range. Housed in a 1U chassis and offering redundant power supplies and a built in switch, the MGR is ideal for all high channel count high sample rate MADI recordings.

The MGR ships as a Quad BNC MADI Interface, but users can fit optional Optical MADI cards allowing complete compatibility with any MADI console in any environment.

The built in network switch provides both front and rear mounted SoundGrid ports, making redundant recordings possible without any additional hardware, or use the extra SoundGrid network port to connect additional DiGiGrid Interfaces. And for mission critical and broadcast applications, the dual redundant PSUs ensure uninterrupted operation and guaranteed performance.



- ▶ Quad BNC MADI-to-SoundGrid interface
- ▶ Optional optical MADI Card available
- ▶ Dual Redundant Power Supplies
- ▶ Built in SoundGrid network switch
- ▶ Plug any MADI-enabled device into SoundGrid
- ▶ Record, process\* and playback up to 128 channels at 96kHz
- ▶ Record to multiple computers simultaneously
- ▶ Compliant with the SoundGrid Studio ASIO / Core Audio driver

\*Processing requires a DGS-XL or IOS-XL SoundGrid Server

# DiGiGrid on your desktop



DiGiGrid's desktop range of personal interfaces bring the quality and flexibility of the rackmount range to your desktop.

With no compromise on build quality or performance, the D, M, Q and S are the ideal entry into the world of DiGiGrid networked audio. On the road, in the project studio or in your home, these compact interfaces have been designed to allow you to capture and monitor at the best quality. And since they're network based, expanding them with any of our other interfaces is simple!



# DiGiGrid on your desktop

## DiGiGrid D

“Enhance your recording experience...”

If you're looking for a creative desktop interface for your studio or live SoundGrid setup, then the DiGiGrid D delivers the most expansive option of the desktop range.

With four inputs and six outputs, D provides great flexibility in all applications. Inputs 1 & 2 are mic/line, and 3 & 4 are line/instrument. There are two outputs with level control ideal for monitoring, and two further fixed level line outputs.

At home, in the studio or out on location, monitor with headphones or

speakers and enhance your favourite DAW to expand your recording capabilities.

As with the entire range, further expansion is simple: D integrates seamlessly with other DiGiGrid products, to provide the user with mountains of extra I/O, and overall functionality.

D is powered by a twist-lock 12V DC power supply (provided as standard), and Power over Ethernet (PoE) for maximum flexibility or ease of set-up, anywhere you want it.

Dynamic. Powerful. Practical.



- › Professional quality network audio interface for PC and MAC
- › Compact format 4 Input, 6 Output 96 KHz advanced audio interface
- › Use as a stand-alone device or as an interface to a larger DiGiGrid system
- › Analogue controls for pure sonic performance
- › Designed for all applications: Studio, Educational, Home Studio and Live use.
- › Enhance your DAW and expand your recording capabilities
- › High resolution input and output meters
- › Ethernet port for the SoundGrid network connection





# DiGiGrid M

## The Musician's Recording Interface

Introducing M: the musician's choice. Perfect for use at home, in the studio, or any musical environment for that matter, this stylish unit boasts two inputs and two outputs. It is super-easy to use: plug and play, with simultaneous monitoring and recording capabilities.

Input one is a dedicated mic/line and input two is instrument/line, which allows for many musical combinations. Audio capture is also of the highest order thanks to M's top quality converters and industry proven mic preamps; and when listening back, a dedicated high-power headphone output guarantees that classic warm analogue control path in a fun and easy to use package.

What's also cool about M is, should you need to expand, the possibilities are practically endless: it integrates seamlessly with any other DiGiGrid product to provide the user with mountains of extra I/O and overall functionality, through its Ethernet SoundGrid network port.

And like the rest of the range, M benefits from a non-slip base and optional mic-stand adaptor plate. It is powered by a twist-lock 12V DC power supply (provided as standard) or Power over Ethernet (PoE) for maximum flexibility and ease of set-up, anywhere you want it.

Musical. Powerful. Practical.



- ▶ Songwriters, musicians and engineers tool for 96KHz recording and headphone monitoring
- ▶ 2 inputs / 2 outputs / 48V Phantom / high pass filter and dedicated metering
- ▶ Just 9cm cubed in high grade aluminium extrusion for rugged yet flexible use
- ▶ Analogue control path for highest quality warm sonic performance
- ▶ Ethernet port for the SoundGrid network connection
- ▶ Optional stand mount adaptor for maximum flexibility of placement
- ▶ Stand alone or integrate into larger DiGiGrid Advanced Audio Networks

## DiGiGrid Mic Stand Adapter



The DiGiGrid mic stand adapter (MSA) allows the Q Headphone Amplifier and M Musicians Interface to be mounted directly to a mic stand. The MSA simply screws to the bottom of your Q or M interface and provides a standard 5/8" thread for convenient mounting in every environment.

# DiGiGrid on your desktop

## DiGiGrid Q

"It might get loud..."

It might be small, but looks can be deceptive. The Q Headphone Amplifier is one of DiGiGrid's series of high-end audio interfaces, and is as powerful as it is sleek. This smart little box has been designed to drive headphones at serious volume, and is fully controllable to suit any audio application: from home recording projects to creative rehearsals, to major studio sessions and Audiophile headphone listening - in fact, all audio applications where precise monitoring is required.

Q features 1/4 inch and 3.5mm outputs, so can accommodate any headphones up to 600 ohm, and has four input options to suit all users: AES/EBU (for professional use),

Ethernet (to connect to the SoundGrid Network), Analogue (for the consumer Audiophile), and Bluetooth, for a fun and fast experience working direct with your digital music collection.

What's also cool about Q is, should you need to expand the possibilities are practically endless: it integrates seamlessly with any other DiGiGrid product, to provide the user with mountains of extra I/O, and overall functionality.

Furthermore, the Q benefits from a non-slip base and optional mic-stand adaptor plate. It is powered by a twist-lock 12V DC power supply (provided as standard), or Power over Ethernet (PoE) for maximum flexibility or ease of



- ▶ High powered headphone amplifier
- ▶ Just 9cm cubed in high grade aluminium extrusion for rugged yet flexible use
- ▶ 4 High quality inputs to suit all users
- ▶ AES/EBU on XLR for professional audio applications
- ▶ Ethernet port for the SoundGrid network connection
- ▶ RCA for the consumer Audiophile
- ▶ Bluetooth for working direct with your digital music collection
- ▶ 1/4" or 3.5mm jack sockets for your preferred





# Software options for DiGiGrid Interfaces



## SoundGrid Studio Application

The SoundGrid Studio Application runs on your host computer and manages all DiGiGrid hardware connected to the SoundGrid network.

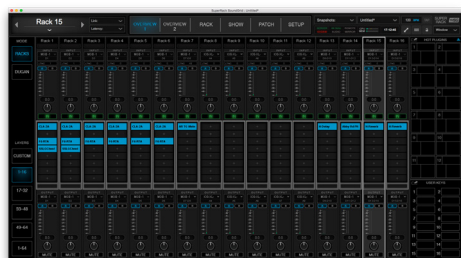
SoundGrid Studio integrates seamlessly with most popular DAWs. SoundGrid Studio enables you to configure setups of every size - from a single DAW with one DiGiGrid I/O, to a whole network of host computers, audio interfaces, and SoundGrid DSP servers.

With its dynamic I/O mapping ability, the SoundGrid Studio Application lets you configure your SoundGrid network, manage its various components, and set up any combination of DiGiGrid devices. Its configuration module lets you assign and route drivers and hardware devices. The SoundGrid Studio Application also enables I/O sharing between several computers whose resources are managed from the designated host computer.



## StudioRack

StudioRack is a software rack designed to run plugin chains, with the choice of directing the processing of each chain to a SoundGrid DSP server or to your host computer's CPU. When processing your plugin chains on the SoundGrid server, StudioRack lets you monitor your tracks in low latency via the eMotion ST mixer.



## SuperRack

SuperRack is a software host that lets FOH and monitor engineers run multiple, simultaneous instances of the same Waves plugins used in recording studios and mixing rooms all over the world. The world's best-sounding reverbs, equalizers, compressors, limiters and delays are at your fingertips, without the limitations of hardware and at a fraction of the cost.

The SuperRack application is ideal for live sound, broadcast, post-production facilities and more. With easy setup and advanced preset capabilities, SuperRack delivers all the flexibility and portability of software, with sound quality and convenience that beats hardware.

The DiGiGrid MGB/MGO MADI Interface and DGS-XL SoundGrid Server are ideally suited to SuperRack, allowing the use of this realtime processing platform on any MADI based console.



## LV1

eMotion LV1 is a revolutionary digital mixing console for FOH, monitor and broadcast engineers. Based on Waves SoundGrid technology, and utilizing DiGiGrid hardware, this software mixer delivers the superior sound quality for which Waves is renowned, as well as the quick and convenient workflow needed in demanding live environments.

eMotion LV1 uses the SoundGrid infrastructure for audio networking. It can be configured as a portable or stationary setup, and can connect to any DiGiGrid Interface or Server. This means you can easily carry your mixer with you and run it anytime, anywhere - at home, in your hotel room, on the tour bus, or at the live venue. This way you can have all the time you need to work on your sessions, whether offline or with full-on audio, and make sure you are 100% ready for your show.

# Technical Data



## DiGiGrid IOS-XL

- ▶ 2U rackmount
- ▶ Supported sample rates: 44.1, 48, 88.2, 96, 176.4\*, 192\* kHz
- ▶ 8 Channel Mic/Line inputs (on XLR/TRS combo)
- ▶ 8 Channel Line outputs (on TRS or 25 pin D-con)
- ▶ 2 Channel AES/EBU (on XLRs) or SPDIF (on RCA) I/O switchable SRC on AES input
- ▶ Word Clock I/O
- ▶ Clock Synchronisation via: Word Clock input, AES/EBU, SPDIF, SoundGrid (SoE), Internal
- ▶ MIDI I/O
- ▶ 4 SoundGrid ports (RJ45s)
- ▶ USB port (emergency port to boot server – support function only)
- ▶ Reset switch
- ▶ 2 Headphone outputs with analogue level controls
- ▶ Settings for different broadcast level formats via jumpers on all analog I/Os
- ▶ Internal i7(v3) Extreme SoundGrid server.

### Mic/Line inputs

Input Impedance

Mic: 2K5

Line: 8K0

Gain Range: Mic -20 TO +60dB in 0.5dB steps

Line -30 to +50dB in 0.5dB steps

Maximum Input Level: Mic: +26dBu

Line: +36dBu

Mic Equivalent Input Noise: >-126dB(150Ohmsource, Gain +60dB)

Harmonic Distortion: typically <0.01% @ unity gain, 10dB input @ 1kHz

Frequency Response: +/-0.5dB 20Hz to 20kHz

Channel Separation: Better than 90dB (40Hz to 15kHz)

### Line Outputs

Maximum Output Level: +22dBu

Residual Output Noise: <90dB (20Hz to 20kHz)

Frequency Response: +/-0.5dB 20Hz to 20kHz

Output Impedance: 50 Ohms

Channel Separation: Better than 90dB (40Hz to 15kHz)

Harmonic Distortion: Typically <0.01% @ +10dB Output @ 1kHz





## DiGiGrid IOC

- ▶ 1U rackmount
- ▶ Supported sample rates: 44.1, 48, 88.2, 96, 176.4\*, 192\* kHz
- ▶ 2 Channel Mic inputs (on XLR/TRS combo)
- ▶ 8 Channel Line inputs (on 25 pin D-con)
- ▶ 8 Channel Line outputs (on 25 pin D-con)
- ▶ 16 Channel AES/EBU I/O (on two 25 pin D-con). Switchable SRC.
- ▶ 8 Channel ADAT I/O (4 Channels @ 96kHz, 2 channels @ 192kHz\*)
- ▶ Word Clock I/O
- ▶ Clock Synchronisation via: Word Clock input, AES/EBU, SoundGrid (SoE), Internal
- ▶ 2 SoundGrid ports (RJ45s)
- ▶ Reset switch
- ▶ 2 Headphone outputs with analogue level controls
- ▶ Settings for different broadcast level formats via jumpers on all analog I/Os

### Mic/Line inputs

#### Input Impedance

Mic: 2K5

Line: 8K0

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### Line Outputs

Maximum Output Level: +22dBu

Residual Output Noise: <90dB (20Hz to 20kHz)

Frequency Response: +/-0.5dB 20Hz to 20kHz

Output Impedance: 50 Ohms

Channel Separation: Better than 90dB (40Hz to 15kHz)

Harmonic Distortion: Typically <0.01% @ +10dB Output @ 1kHz

# Technical Data



## DiGiGrid DLI

- ▶ 2 DigiLink ports with 64 channels (32 channels per port) in either I/O or SGP mode
- ▶ I/O mode: DLI acts as an interface connected to HD Core, HD Accel, HDX, or HD Native cards; supports Pro Tools TDM 10.x and 11.x (see SoundGrid Studio for a list of compatible Pro Tools versions)
- ▶ SGP mode: DLI acts as a controller for DigiLink-enabled I/Os (Digi192, Digi 96, HD Omni, HD I/O, Apogee Symphony, Lynx Aurora)
- ▶ 2 SoundGrid RJ45 Ethernet ports
- ▶ 1 AC input
- ▶ 1 Word Clock/Loop Sync I/O
- ▶ 1 USB port
- ▶ 1U rackmount
- ▶ Supported sample rates: 44.1, 48, 88.2, 96, 176.4\*, 192\* kHz
- ▶ Recovery switch
- ▶ Clocking options: Word Clock/Loop Sync, SoundGrid (SoE), or DigiLink

## DiGiGrid DGS-XL

- ▶ 2U rackmount
- ▶ Internal i7(v3) Extreme SoundGrid server.
- ▶ 4 SoundGrid ports (RJ45) with PoE Support
- ▶ 1 AC input
- ▶ USB port (emergency port to boot server – support function only)
- ▶ Supported sample rates: 44.1, 48, 88.2, 96, 176.4\*, 192\* kHz



## DiGiGrid IOX

- ▶ 1U rackmount
- ▶ Supported sample rates: 44.1, 48, 88.2, 96, 176.4\*, 192\* kHz
- ▶ 12 Channel Mic/Line inputs (on XLR/TRS combo)
- ▶ 6 Channel Line outputs (on TRS)
- ▶ Word Clock I/O
- ▶ Clock Synchronisation via: Word Clock input, SoundGrid (SoE), Internal
- ▶ 2 SoundGrid ports (RJ45s)
- ▶ Reset switch
- ▶ 4 Headphone outputs with analogue level controls
- ▶ Settings for different broadcast level formats via jumpers on all analogue I/Os

### Mic/Line inputs

#### Input Impedance

|             |   |
|-------------|---|
| Mic:        | 2K5   |
| Line:       | 8K0   |
| Gain Range: | Mic -20 TO +60dB in 0.5dB steps<br>Line -30 to +50dB in 0.5dB steps |

|                      |                             |
|----------------------|-----------------------------|
| Maximum Input Level: | Mic: +26dBu<br>Line: +36dBu |
|----------------------|-----------------------------|

|                             |                                     |
|-----------------------------|-------------------------------------|
| Mic Equivalent Input Noise: | >-126dB (150 Ohm source, Gain+60dB) |
|-----------------------------|-------------------------------------|

|                      |   |
|----------------------|---|
| Harmonic Distortion: | typically <0.01% @ unity gain,<br>10dB input @ 1kHz |
|----------------------|---|

|                     |                                  |
|---------------------|----------------------------------|
| Frequency Response: | +/-0.5dB 20Hz to 20kHz           |
| Channel Separation: | Better than 90dB (40Hz to 15kHz) |

### Line Outputs

|                        |  |
|------------------------|--|
| Maximum Output Level:  | +22dBu                                 |
| Residual Output Noise: | <90dB (20Hz to 20kHz)                  |
| Frequency Response:    | +/-0.5dB 20Hz to 20kHz                 |
| Output Impedance:      | 50 Ohms                                |
| Channel Separation:    | Better than 90dB (40Hz to 15kHz)       |
| Harmonic Distortion:   | Typically <0.01% @ +10dB Output @ 1kHz |



## DiGiGrid MGO/MGB

- MGB: MAD I Coaxial I/O (BNCs)
- MGO: MAD I Optical I/O (SFP Optics cartridges)
- Supported sample rates: 44.1, 48, 88.2, 96 kHz
- 112/128 channel I/O @ 48kHz
- 56/64 channel I/O @ 96kHz
- Support for 64ch and 56ch mode
- Support for double wire (48k frame) and single wire (96k frame) @ 96kHz
- Clock Synchronisation via (in fallback order): Word Clock input, MAD I (port A), SoundGrid (SoE), Internal
- 1 SoundGrid port (RJ45)
- Reset switch
- Professional grade screw lock power connector



## DiGiGrid MGR

- 1U rackmount
- Quad MAD I interface
- Fitted with dual MGB MAD I I/O Modules as standard
- Optional MGO module for Optial MAD I support
- Supported sample rates: 44.1, 48, 88.2, 96 kHz
- 224/256 channel I/O @ 48kHz
- 112/128 channel I/O @ 96kHz
- Support for 64chn and 56chn modes
- Support for double wire (48k frame) and single wire (96k frame) @ 96kHz
- Clock Synchronisation via (in fallback order): Word Clock input, MAD I (port A), SoundGrid (SoE), Internal
- 2 SoundGrid ports (RJ45)
- Dual AC input with redundant operation



# Technical Data

## DiGiGrid D



- ▶ Desktop interface
- ▶ 2 Mic inputs (on XLR/TRS combo)
- ▶ 2 Line/Instrument inputs (on TRS)
- ▶ 2 Fixed level Line outputs (on TRS)
- ▶ 2 Variable level Line outputs (on TRS)
- ▶ Headphone output with analogue level control
- ▶ Supported sample rates: 44.1, 48, 88.2, 96 kHz
- ▶ 1 SoundGrid port (RJ45)
- ▶ Reset switch
- ▶ Quarter turn lock power connector
- ▶ PoE Powered

### Mic inputs

|  |                                 |
|--|---------------------------------|
| Input Impedance                              | 1K5Ω                            |
| Gain Range                                   | 0 To +70dB                      |
| Frequency Response<br>(Analogue To Analogue) | -3dB <10Hz To 100kHz            |
| Harmonic Distortion                          | 0.005% (40dB Gain)              |
| Noise EIN                                    | Typically -127dB<br>(70dB Gain) |
| High Pass Filter                             | -3dB 100Hz 18dB/Octave          |

### Line inputs

|  |                                    |
|--|------------------------------------|
| Input Impedance                              | 1MΩ/10KΩ                           |
| Gain Range                                   | +6 To +30dB                        |
| Frequency Response<br>(Analogue To Analogue) | -3dB <10Hz To 100kHz               |
| Harmonic Distortion                          | 0.005%                             |
| Noise  | Min Gain -82dBu<br>Max Gain -73dBu |

### Headphones

|                   |                   |
|-------------------|-------------------|
| Gain Range        | Infinity To +10dB |
| Max Output Level: |                   |
|                   | Load    Level Rms |
|                   | 16Ω    2.3V       |
|                   | 32Ω    3.7V       |
|                   | 100Ω   6.0V       |
|                   | 200Ω   7.5V       |
|                   | 600Ω   8.8V       |

### Monitor outputs

|                       |        |
|-----------------------|--------|
| Maximum Output Level  | +22dBu |
| Residual Output Noise | <92dBu |
| Output Impedance      | 50Ω    |
| Harmonic Distortion   | 0.005% |

## DiGiGrid M



- ▶ Desktop interface
- ▶ 1 Mic inputs (on XLR/TRS combo)
- ▶ 1 Line/Instrument inputs (on TRS)
- ▶ Headphone output with analogue level control
- ▶ Supported sample rates: 44.1, 48, 88.2, 96 kHz
- ▶ 1 SoundGrid port (RJ45)
- ▶ Reset switch
- ▶ Quarter turn lock power connector
- ▶ PoE Powered
- ▶ Optional Mic Stand adapter

### Mic input

|  |                                 |
|--|---------------------------------|
| Input Impedance                              | 1K5Ω                            |
| Gain Range                                   | 0 To +70dB                      |
| Frequency Response<br>(Analogue To Analogue) | -3dB <10Hz To 100kHz            |
| Harmonic Distortion                          | 0.005% (40dB Gain)              |
| Noise EIN                                    | Typically -127dB<br>(70dB Gain) |
| High Pass Filter                             | -3dB 100Hz 18dB/Octave          |

### Line input

|  |                                    |
|--|------------------------------------|
| Input Impedance                              | 1MΩ/10KΩ                           |
| Gain Range                                   | +6 To +30dB                        |
| Frequency Response<br>(Analogue To Analogue) | -3dB <10Hz To 100kHz               |
| Harmonic Distortion                          | 0.005%                             |
| Noise  | Min Gain -82dBu<br>Max Gain -73dBu |

### Headphones

|                   |                   |
|-------------------|-------------------|
| Gain Range        | Infinity To +10dB |
| Max Output Level: |                   |
|                   | Load    Level Rms |
|                   | 16Ω    2.3V       |
|                   | 32Ω    3.7V       |
|                   | 100Ω   6.0V       |
|                   | 200Ω   7.5V       |
|                   | 600Ω   8.8V       |



## DiGiGrid Q



- Desktop interface
- 4 input headphone Amplifier
- 1 SoundGrid input (RJ45)
- 1 AES/EBU input
- 1 Analogue line input
- 1 Bluetooth Audio input
- Headphone output with analogue level control
- Supported sample rates: 44.1, 48, 88.2, 96 kHz
- Reset switch
- Quarter turn lock power connector
- PoE Powered
- Optional Mic Stand adapter

### Inputs

|  |                      |
|--|----------------------|
| Line Input Impedance                         | 10K $\Omega$         |
| AES/EBU Input Impedance                      | 110 $\Omega$         |
| Line Input Level                             | +2dBu For Full Scale |
| Frequency Response<br>(Analogue To Analogue) | -3dB <10Hz To 100kHz |
| Harmonic Distortion                          | 0.005%               |

### Headphones

|                   |                   |           |
|-------------------|-------------------|-----------|
| Gain Range        | Infinity To +10dB |           |
| Max Output Level: | Load              | Level Rms |
|                   | 16 $\Omega$       | 2.3V      |
|                   | 32 $\Omega$       | 3.7V      |
|                   | 100 $\Omega$      | 6.0V      |
|                   | 200 $\Omega$      | 7.5V      |
|                   | 600 $\Omega$      | 8.8V      |

\* Future Development. Currently SG supports up to 96kHz. Higher sample rates will be supported by future versions.

E&OE

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