![DiGiGrid logo]

IOC
High-Definition I/O with SoundGrid DSP Server

OVERVIEW

Designed with the control room in mind, the DiGiGrid IOC audio interface features a variety of connectivity options: 2 mic/line inputs with broadcast-grade preamps, 8 line inputs/ outputs, 16 AES inputs/outputs, an ADAT input/output, plus two powerful headphone outputs. Plug into the SoundGrid network using a single Ethernet cable, and the IOC will open up a world of real-time tracking, mixing and monitoring, with super-low latency of only 0.8 milliseconds. With the DiGiGrid IOC and a SoundGrid DSP server, you can run hundreds of SoundGrid-compatible plugins from Waves and other developers, all fully integrated within your DAW.

KEY FEATURES

2 mic/line inputs with premium preamps and 8 line inputs

8 line outputs, 2 headphone outputs

16 AES/EBU ins/outs, ADAT in/out

Connects via a single Ethernet cable

Quick-view front panel input metering

High-definition AD/DA conversion

1U Rackmount unit

Compliant with the Soundgrid Studio ASIO/Core Audio driver

DiGiGrid audio interfaces give you the freedom to connect all your DAWs and hardware devices quickly and easily, and the power to run up to hundreds of plugins in real time. Waves, the world's leading developer of audio plugins, and DiGiCo, the world's leading manufacturer of professional mixing consoles, have joined forces to create the most advanced audio interfaces on the market, with award-winning preamps and superior networking and processing capabilities.

TECHNICAL SPECIFICATIONS

FRONT

2 × Headphone outputs (1/4'' TRS) with independent analogue level controls
10 × Quick-view metering and status indicators
1 × Power button

REAR

2 × mic/line inputs (XLR/TRS combo)
8 × channel line inputs (25 pin D-con)
8 × channel line outputs (25 pin D-con)
16 × channel AES/EBU I/O (on 2 × 25 pin D-con)
8 × channel ADAT I/O (48kHz only)
2 × SoundGrid RJ45 Ethernet ports (switched)
1 × Word Clock I/O (BNC)
1 × AC PSU
1 × Reset switch

The DiGiGrid IOC shall be an audio interface for the SoundGrid Network.

The front of the unit shall have two headphone outputs (1/4'' TRS), each with its own analogue level control. There shall also be 10 sets of quick-view metering and indicator LEDs, showing whether a signal is present, if it is clipping and if phantom power has been turned on (if applicable) for each of the 10 analogue inputs. The front of the unit shall also have a power button for turning the device on and off.

The rear of the unit shall have 2 mic/line inputs (XLR/TRS combo), 8 channel line inputs (25 pin D-con), 8 channel line outputs (25 pin D-con), 16 channel AES/EBU I/O (2 x 25 pin D-con) and 8 channel ADAT I/O (48kHz only). The rear shall also have 2 switched RJ45 ethernet ports for connection to other SoundGrid devices, Word Clock I/O, an AC PSU and a reset swich.

The clock synchronisation source shall be chosen from Word Clock, AES/EBU, SoundGrid (sync over ethernet) or internal.

Inside the unit there shall be a set of jumpers to change the broadcast level format of each analogue input and output.

The dimensions of the IOC shall be: 482.6 (w) × 356 (d) × 43.6 (h) mm
The weight of the IOC shall be: 4.5kg

AUDIO SPECIFICATIONS

Sample Rate: 44.1kHz / 48kHz / 88.2kHz / 96kHz

Internal Latency: 0.8ms

Analogue Inputs

Input Impedance: Mic: 2K5 / Line: 8K0 Ohms

Gain Range: Mic: -20dB to +60dB in 0.5dB steps / Line: -30dB to +50dB in 0.5dB steps

Maximum Input Level: Mic: +26dBu / Line: +36dBu

Mic Equivalent Input Noise: > -126 dB (150 Ω source, 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)

Analogue Outputs

Maximum Output Level: +22dBu

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

Frequency Response: +/-0.5dB (20Hz to 20kHz)
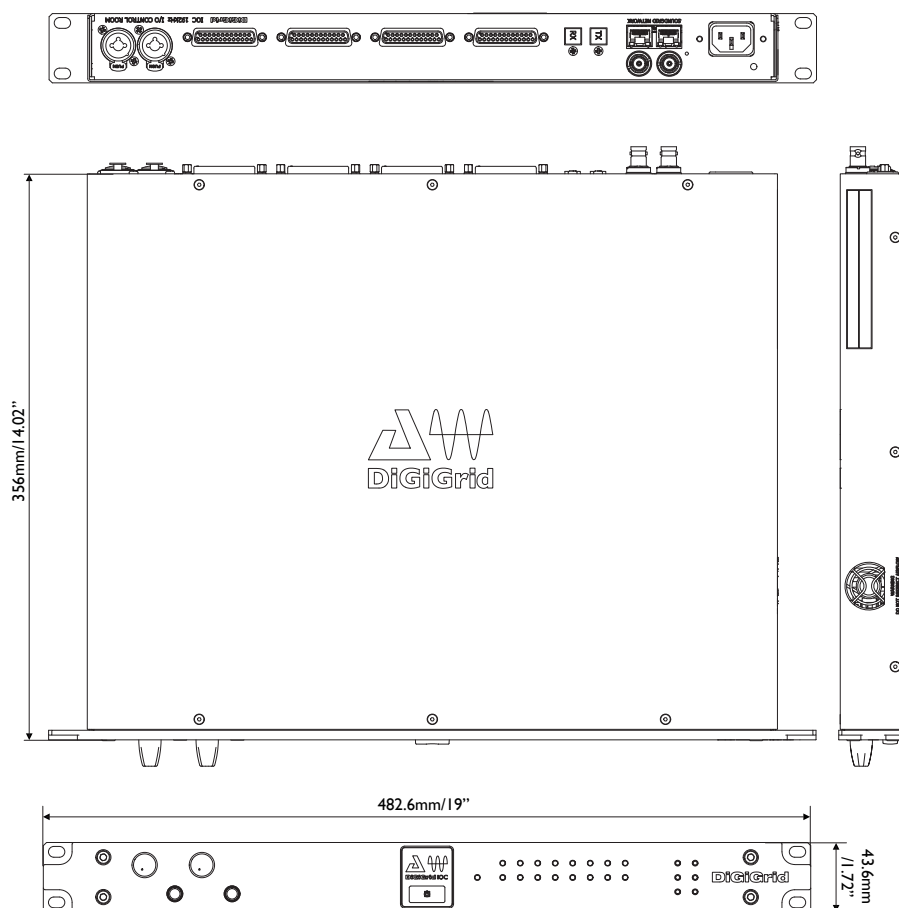
Output Impedance: 50 Ω

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

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

SoundGrid audio networking gives you the freedom to connect multiple I/Os, mixing consoles, DAW computers and DSP servers to the same system, all using standard Cat 5e/Cat 6 Ethernet cables. Boasting state-of-the-art AD/DA convertors, DiGiGrid intergaces ensure high fidelity with uncompromising dynamic range, plus the ease and flexibility of the SoundGrid network.

LINE DRAWING

All dimensions in mm

356mm/14.02"

482.6mm/19"

43.6mm /1.72"

PHYSICAL

Dimensions: 482.6mm (w) x 356mm (d) x 43.6mm (h)

Weight: 4.5kg (6.5kg boxed)

Power Requirements: 100-240 VAC, 0.8A, 50/60Hz

Product Code: X-DG-IOC

www.digigrid.net