

DANTE AUDIO SWITCHING BOARD KIT FOR ENOVA DGX 6400

DGX6400-ASB-DAN (FG1061-864)



Overview

The DGX6400-ASB-DAN is an audio switching board kit featuring direct Dante networked audio feeds to and from the Enova DGX 6400 enclosure. The boards support 16 discrete stereo decoded inputs and 16 discrete stereo encoded outputs. This allows for independent routing of decoded inputs, or breakaway to decoded audio outputs, into a networked audio system such as HARMAN's BSS. Additionally, the kits feature audio breakaway, downmixing, and a host of DSP functionality such as EQ, volume control, and stereo summing on every path.

Features

- **Direct Dante Integration into the Enova DGX** – Reduces the physical installation time for inserted and extracted audio paths from the Enova DGX system as Dante network enabled signals
- **Easy Integration with Dante Enabled Devices including HARMAN BSS and Crown** – Allows for simple decision making when specifying companion DSP to the Enova DGX switching solution
- **Simplified Integration with Building-Wide Audio** – Utilizing Dante, the industry's most standard networked audio format, integration of traditional Centralized AV and networked audio is quick and easy
- **Audio Breakaway Switching** – audio breakaway switching functionality allows for flexible combining of audio and video signals even if they originated from different sources
- **Integrated DSP Including a 10-Band Parametric EQ on Every Output** – Audio equalization allows the sound in each zone to be tuned specifically to match the individual audio characteristics of each environment. After

easy setup with the integrated web GUI, the same audio source can be heard perfectly in each zone regardless of acoustical differences.

Specifications

| GENERAL | |
|---|---|
| Compatible Enova DGX Systems | Enova DGX 6400 |
| Compatible Enova DGX I/O Boards | <ul style="list-style-type: none"> •DGX-I-HDMI, Enova DGX HDMI Input Board (FG1058-540) •DGX-I-HDM-4K, Enova DGX 4K HDMI Input Board (FG1061-540) •DGX-O-HDMI, Enova DGX HDMI Output Board (FG1058-550) •DGX-I-DVI, Enova DGX DVI Input Board (FG1058-600) •DGX-O-DVI, Enova DGX DVI Output Board (FG1058-610) •DGX-I-DXL, Enova DGX DXLink Twisted Pair Input Board (FG1058-570) •DGX-I-DXL-4K, Enova DGX 4K DXLink Twisted Pair Input Board (FG1061-570) •DGX-O-DXL, Enova DGX DXLink Twisted Pair Output Board (FG1058-580) •DGX-O-DXL-4K, Enova DGX 4K DXLink Twisted Pair Output Board (FG1061-580) •DGX-I-DXF-MMD, Enova DGX DXLink Multimode Fiber Input Board, Duplex (FG1058-622) •DGX-O-DXF-MMD, Enova DGX DXLink Multimode Fiber Output Board, Duplex (FG1058-632) •DGX-I-DXF-MMS, Enova DGX DXLink Multimode Fiber Input Board, Simplex (FG1058-623) •DGX-O-DXF-MMS, Enova DGX DXLink Multimode Fiber Output Board, Simplex (FG1058-633) •DGX-I-DXF-SMD, Enova DGX DXLink Single Mode Fiber Input Board, Duplex (FG1058-620) •DGX-O-DXF-SMD, Enova DGX DXLink Single Mode Fiber Output Board, Duplex (FG1058-630) •DGX-I-DXF-SMS, Enova DGX DXLink Single Mode Fiber Input Board, Simplex (FG1058-621) •DGX-O-DXF-SMS, Enova DGX DXLink Single Mode Fiber Output Board, Simplex (FG1058-631) |
| AUDIO SWITCHING | |
| 80 x 80 Matrix Audio Switching | Each of the embedded or auxiliary encoded Dante outputs has independent volume, EQ, and sync delay |
| AUDIO INPUTS | |
| 64 Embedded Digital Audio Inputs from Video Input Positions | (Embedded audio must originate as 2 channel PCM) Applies to embedded audio inputs on Enova DGX Input Boards for positions 1-64 |
| Auxiliary Decoded Dante Inputs | 16 from Primary or Secondary RJ-45 for connection to Dante network; Decoded stereo audio signals available as Enova DGX Audio inputs 58-80 |
| AUDIO OUTPUTS | |
| 64 Embedded Digital Audio to Aideo Outputs | Applies to embedded audio outputs on Enova DGX Output Boards for positions 1-64 |
| Auxiliary Encoded Dante Outputs | 16 to Primary or Secondary RJ-45 for connection to Dante network; Encoded stereo audio signals provided as Enova DGX Audio outputs 58-80 |

| AUDIO ADJUSTMENTS PER INPUT (EMBEDDED VIDEO AND AUXILIARY DANTE DECODED INPUTS) | |
|--|--|
| Audio Input Compression | <ul style="list-style-type: none"> •Independent Compression per input •Attack: 1 to 2000 ms •Release: 10 to 5000 ms •Compression Ratio: 1 to 20 •Threshold: -60 to 0 dB |
| Audio Input Gain Compensation | -24 dB to +24 dB, 1 dB steps |

| AUDIO ADJUSTMENTS PER OUTPUT (EMBEDDED VIDEO AND AUXILIARY DANTE DECODED OUTPUTS) | |
|--|---|
| Audio Output Compression | <ul style="list-style-type: none"> •10-band parametric EQ with variable center frequency, filter type and Q per band •Center Frequency: 20 Hz to 20 kHz •EQ Gain: -12 to +12 dB •Q: 0.1 to 20 •Filter Types: Bell, Bass Shelving, Treble Shelving, Low Pass, High Pass, Band Pass, Band Stop |
| Audio Output Sync Delay | 0 to 200 ms |
| Balance Control | 20 steps each left and right |
| Audio Control per Output | Independent EQ, Volume and Balance control per output |
| Test Tone Generator | Single selection of test tone type available on all outputs simultaneously. Individually enabled/disabled per output – 60 Hz, 250 Hz, 400 Hz, 1 kHz, 3Hz, 5 kHz, 10 kHz, Pink Noise, White Noise |

| AUXILIARY DANTE DECODED AUDIO INPUTS | |
|---|--|
| SPECS TBD | |

| AUXILIARY DANTE DECODED AUDIO OUTPUTS | |
|--|--|
| SPECS TBD | |

| DOWN-MIX | |
|-------------------------------|---|
| Down-mix Input | Down-mix input fed from selectable embedded audio input from any Enova DGX Input Board. Down-mixed audio switchable to all embedded/auxiliary Dante encoded audio outputs |
| Down-mix Input Format Support | Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, 2 CH through 8 CH L-PCM |

About AMX by HARMAN
 Founded in 1982 and acquired by HARMAN in 2014, AMX® is dedicated to providing AV solutions for an IT World. AMX solves the complexity of managing technology with reliable, consistent and scalable systems comprising control, video switching and distribution, digital signage and technology management. AMX systems are deployed worldwide in conference rooms, classrooms, network operation/command centers, homes, hotels, entertainment venues and broadcast facilities, among others. AMX is part of the HARMAN Professional Group, the only total audio, video, lighting, and control vendor in the professional AV market. HARMAN designs, manufactures and markets premier audio, video, infotainment and integrated control solutions for the automotive, consumer and professional markets. Revised 2.13.2017. ©2017 Harman. All rights reserved. Specifications subject to change.

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