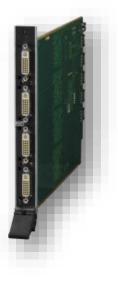# Enova® DGX DVI Output Board

AVS-ENOVADGX32-VO-DVI (FG1058-610)

Overview

The AVS-ENOVADGX32-VO-DVI is a HDCP compliant DVI output board for the Enova DGX 8, Enova DGX 16, Enova DGX 32 and Enova DGX 64. It has four DVI connections per board and supports HDMI or DVI signals. Like all output boards for the Enova DGX, the AVS-ENOVADGX32-VO-DVI features SmartScale® Technology which outputs video that is perfectly scaled for each connected display, eliminating the integration challenges that can occur when sources and displays have different optimal resolutions.

Common Applications

The Enova DGX DVI Output Board is ideal for applications where destinations are located within 15 meters of the Enova DGX Digital Media Switcher, eliminating the need for external receivers. Integrated SmartScale Technology provides optimal display resolution for each connected display.

Features

- **InstaGate Pro® Technology** – Easily integrate HDMI/HDCP into system designs and enjoy hassle-free matrix switching to all compliant displays. No tools, no delays, and no key constraints – it just works
- **SmartScale Technology** – Automatically responds to the display's declared EDID information and scales the video to the best resolution and video parameters for that display without manual setup; this prevents inferior video quality when sources are forced to lower resolutions to support the least capable display in the system

- **Hot Swappable** – Easily add or replace I/O boards at any time after deployment - the system automatically recognizes the new configuration and activates the boards
- **3D Support** – Pass through latest video formats including 3D and Deep Color
- **Surround Sound Support** – Pass through high definition surround sound including Dolby TrueHD, Dolby Digital, DTS-HD Master Audio, DTS, and 2-channel through 8-channel L-PCM

Specifications

DVI w/HDCP	
Compatible Formats	DVI, HDCP
Signal Type Support	DVI-D (Single Link) HDMI (With DVI Cable Adapter)
HDMI Mode Support	DVI boards can be run in HDMI mode with an EDID update which will provide full HDMI functionality and board specifications
Data Rate (Max)	4.95 Gbps
Pixel Clock (Max)	165 MHz
Progressive Resolution Support	480p up to 1920x1200 @ 60 Hz If input is interlaced, all scaled outputs will deinterlace video to a progressive resolution format. If in scaler Bypass mode interlaced input will pass through unaltered
Interlaced Resolution Support	480i, 576i, 1080i
2K Resolution Support	2048x1024 @ 47Hz, 2048x1080 @ 60Hz, 2048x1152 @ 60Hz, 2048x1536 @ 24Hz 2K formats are only compatible with the DVI and HDMI Input/Output boards and require the output scaler to be set in Bypass mode
Output Re-clocking	Yes
Output Scaling	SmartScale or manual configuration or Bypass
SmartScale Output Resolution Support	All resolutions between 480p and 1920 x 1200 @ 60 Hz via automatic SmartScale query of the display's declared EDID Detailed Timing Definition
Color Depth Support	24-bit
Color Space Support	RGB 4:4:4
Local Audio Support	Yes, Insertion and/or Extraction of 2 CH L-PCM selectable by channel
DDC/EDID Support	EDID provided by Enova DGX 8/16/32/64 EDID is user re-programmable
HDCP Support	Yes, full matrix HDCP support (includes any input to any or all outputs) Key Management System AMX HDCP InstaGate Pro Technology Key support up to 16 devices per output, independent of source device
Output Voltage (Nominal)	1.0 Vpp Differential
Output Rise Time / Fall Time	100 ps min - 200 ps max (20% - 80%) 0.16 UI min - 0.33 UI max (@ 1.65 Gbps, 20% - 80%)
Output +5V DDC Pin	50 mA
DVI Output Board Propagation Delay	24 ms for progressive, 48 ms for interlace, 5 us when in Bypass mode
Connectors	(4) DVI-I Ports (DVI-D Single Link is the supported signal type)

About AMX

AMX hardware and software solutions simplify the implementation, maintenance, and use of technology to create effective environments. With the increasing number of technologies and operating platforms at work and home, AMX solves the complexity of managing this technology with reliable, consistent and scalable systems. Our award-winning products span control and automation, system-wide switching and audio/video signal distribution, digital signage and technology management. They are implemented worldwide in conference rooms, homes, classrooms, network operation / command centers, hotels, entertainment venues, broadcast facilities, and more. ©2014 AMX. All rights reserved.
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