Enova® DGX DVI Input Board

AVS-ENOVADGX32-VI-DVI (FG1058-600)

Overview

The AVS-ENOVADGX32-VI-DVI is an HDCP compliant DVI input board for the Enova DGX 8, Enova DGX 16 and Enova DGX 32. It has four DVI connections per board and supports HDMI, DisplayPort++ or DVI signals.

Common Applications

The Enova DGX DVI Input Board is ideal for applications where source devices are located within 15 meters of the Enova DGX Digital Media Switcher, allowing direct digital inputs into the system and eliminating the need for external transmitters.

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
- **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

Specifications

DVI w/HDCP	
Compatible Formats	DVI, HDCP
Signal Type Support	DVI-D (Single Link) HDMI (With DVI Cable Adapter) DisplayPort ++ (Input Only, 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
Video Data Rate (Max)	4.95 Gbps / 6.75 Gbps 6.75 Gbps supported when DVI Input Board is used in HDMI mode and the HDMI Output Board Scaler or DXLink HDMI Rx Scaler is in Bypass mode and format is 1080p60 or less
Video Pixel Clock (Max)	165 MHz
Progressive Resolution Support	480p up to 1920x1200 @ 60 Hz
Interlaced Resolution Support	480i, 576i, 1080i
2K Resolution Support	2048x1024 @ 47 Hz, 2048x1080 @ 60 Hz, 2048x1152 @ 60 Hz, 2048x1536 @ 24 Hz

	2K formats are only compatible with the DVI and HDMI Input/Output boards and require the output scaler to be set in Bypass mode
Input Equalization	Yes, Adaptive up to 100 ft (30 m) at 165 MHz Cable distance support dependent on cable type and signal format
Input Re-clocking (CDR)	Yes
Color Depth Support	24-bit
Color Space Support	RGB 4:4:4 YCbCr 4:4:4 and 4:2:2 Input signal support for YCbCr 4:4:4 and 4:2:2, output color-space is converted to 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, 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
Input Voltage (Nominal)	1.0 Vpp Differential
DVI Input Board Propagation Delay	2 us
HDMI Audio Synchronization (relevant to DVI when DVI board is used in HDMI mode)	Progressive and Interlaced Video Formats @ 60 Hz frame rate: Audio is actively delayed to match video within 8ms leading or lagging.
Connector	4 DVI-I Ports (DVI-D Single Link is the supported signal type)
Approvals	CE, FCC Class A, UL, cUL, RoHS / WEEE compliant

EDID – FACTORY LOADED[1]	
Standard Timing Identification	1920 x 1080 @60 Hz (this is the preferred timing identified in the EDID) 1920 x 1200 @60 Hz 1680 x 1050 @60 Hz 1600 x 1200 @60 Hz 1600 x 900 @60 Hz 1400 x 1050 @60 Hz 1440 x 900 @60 Hz 1360 x 765 @60 Hz 1280 x 1024 @60 Hz 1280 x 900 @60 Hz 1280 x 800 @60 Hz 1280 x 720 @60 Hz
Established Timing	1280 x 1024 @ 75 Hz 1152 x 870 @ 75 Hz 1024 x 768 @ 60 Hz, 70 Hz, 75 Hz, 87 Hz 832 x 624 @ 75 Hz 800 x 600 @ 56 Hz, 60 Hz, 72 Hz, 75 Hz 720 x 400 @ 70 Hz, 88 Hz 640 x 480 @ 60 Hz, 67 Hz, 72 Hz, 75 Hz

[1]The default EDID can be overwritten to include a broad range of features, including HDMI mode, based on installation requirements

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.

Specifications subject to change. Revised 1-Feb-13.

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