

# Enova DGX Digital Media Switcher Boards

## PRODUCT COMPARISON CHART

ALL Enova DGX, DXLink and DXLink Fiber boards fit in any Enova DGX Enclosure. Visit AMX.com and use the Enova DGX Configuration Tool to design your next digital media switcher, complete with compatible DXLink Twisted Pair and Fiber Transmitters / Receivers.

### Enova DGX Enclosures

All Enova DGX Enclosures are also equipped with an Integrated NetLinx NX Series Central Control Processor, Redundant Power Supplies, SmartScale, InstaGate Pro and Built-In Ethernet Switch.

	ENOVA DGX 8	ENOVA DGX 16	ENOVA DGX 32	ENOVA DGX 64
Input / Output Board Slots (4 Connections / Board)	2 / 2	4 / 4	8 / 8	16 / 16
Audio Insert / Extract Board Input / Output Slots	1 / 1	1 / 1	1 / 1	4 / 4

BOARD	MODEL	CONNECTIONS	HDCP	DISTANCE	TRANSMISSION DATA RATE	BIDIRECTIONAL CONTROL OVER FIBER/TWISTED PAIR (ETHERNET, USB, IR, SERIAL, EDID)	BIDIRECTIONAL CONTROL OVER AN INDEPENDENT NETWORK CONNECTION	SMARTSCALE	COMPATIBLE TX/RX
<b>Local</b>									
HDMI Input Board	DGX-I-HDMI (FG1058-540)	4 HDMI	Yes	30.5 m / 100 ft*	n/a	n/a	Yes	n/a	n/a
DVI Input Board	DGX-I-DVI (FG1058-600)	4 DVI-D	Yes	30.5 m / 100 ft**	n/a	n/a	Yes	n/a	n/a
HDMI Output Board	DGX-O-HDMI (FG1058-558)	4 HDMI	Yes	15 m / 49 ft***	n/a	n/a	Yes	Yes	n/a
DVI Output Board	DGX-O-DVI (FG1058-610)	4 DVI-D	Yes	15 m / 49 ft***	n/a	n/a	Yes	Yes	n/a
Audio Insert / Extract Board	DGX-AIE (FG1058-705)	8 pluggable, dual three-position, terminal blocks each containing two single-ended stereo contacts	n/a	n/a	n/a	n/a	Yes	n/a	n/a
<b>DXLink Twisted Pair</b>									
Twisted Pair Input Board	DGX-I-DXL (FG1058-570)	4 RJ-45	Yes	100 m / 328 ft****	10.2 Gbps	Yes	Yes	n/a	DX-TX (FG1010-310) DX-TX-DWP (FG1010-325-BL/WH) DX-TX-WP (FG1010-320-BL/WH) SDX-410-DX (FG1010-304) SDX-510M-DX (FG1010-315) SDX-810-DX (FG1010-308)
Twisted Pair Output Board	DGX-O-DXL (FG1058-580)	4 RJ-45	Yes	100 m / 328 ft****	10.2 Gbps	Yes	Yes	Yes, at DXLink RX	DX-RX (FG1010-500)
<b>DXLink Fiber, Multimode Fiber featuring Field Serviceable SFP Modules</b>									
Multimode Fiber Input Board (Duplex)	DGX-I-DXF-MMD (FG1058-622)	4 LC Duplex	Yes	300 m / 984 ft	10 Gbps	Yes	Yes	n/a	DXF-TX-MMD (FG1010-362) DXF-TX-MMS (FG1010-363)
Multimode Fiber Input Board (Simplex)	DGX-I-DXF-MMS (FG1058-623)	4 LC Simplex	Yes	300 m / 984 ft	10 Gbps	No	Yes	n/a	DXF-TX-MMS (FG1010-363) DXF-TX-MMD (FG1010-362)
Multimode Fiber Output Board (Duplex)	DGX-O-DXF-MMD (FG1058-632)	4 LC Duplex	Yes	300 m / 984 ft	10 Gbps	Yes	Yes	Yes, at DXLink Fiber RX	DXF-RX-MMD (FG1010-562) DXF-RX-MMS (FG1010-563)
Multimode Fiber Output Board (Simplex)	DGX-O-DXF-MMS (FG1058-633)	4 LC Simplex	Yes	300 m / 984 ft	10 Gbps	No	Yes	Yes, at DXLink Fiber RX	DXF-RX-MMS (FG1010-563) DXF-RX-MMD (FG1010-562)
<b>DXLink Fiber, Single Mode Fiber featuring Field Serviceable SFP Modules</b>									
Single Mode Fiber Input Board (Duplex)	DGX-I-DXF-SMD (FG1058-620)	4 LC Duplex	Yes	10 Km / 32,808 ft / 6.21 miles	10 Gbps	Yes	Yes	n/a	DXF-TX-SMD (FG1010-360) DXF-TX-SMS (FG1010-361)
Single Mode Fiber Input Board (Simplex)	DGX-I-DXF-SMS (FG1058-621)	4 LC Simplex	Yes	10 Km / 32,808 ft / 6.21 miles	10 Gbps	No	Yes	n/a	DXF-TX-SMS (FG1010-361) DXF-TX-SMD (FG1010-360)
Single Mode Fiber Output Board (Duplex)	DGX-O-DXF-SMD (FG1058-630)	4 LC Duplex	Yes	10 Km / 32,808 ft / 6.21 miles	10 Gbps	Yes	Yes	Yes, at DXLink Fiber RX	DXF-RX-SMD (FG1010-560) DXF-RX-SMS (FG1010-561)
Single Mode Fiber Output Board (Simplex)	DGX-O-DXF-SMS (FG1058-631)	4 LC Simplex	Yes	10 Km / 32,808 ft / 6.21 miles	10 Gbps	No	Yes	Yes, at DXLink Fiber RX	DXF-RX-SMS (FG1010-561) DXF-RX-SMD (FG1010-560)

\*Features Input Equalization, adaptive up to 100ft (30m) at 225 MHz (cable distance support dependent on cable type and signal format)  
\*\*Features Input Equalization, adaptive up to 100ft (30m) at 165 MHz (cable distance support dependent on cable type and signal format)

\*\*\*Dependent on cable quality and display  
\*\*\*\*For more details and helpful cabling information, please reference the AMX white paper titled "Cabling for Success with DXLink"

### Important Design Notes:

Connectivity between DXLink Fiber Transmitters and DXLink Fiber Input Boards / DXLink Fiber Output Boards and DXLink Fiber Receivers products requires matching fiber cable types, Multimode to Multimode and Single Mode to Single Mode. Duplex / Simplex compatibility is allowed however the functionality of the system will be reduced to the lesser simplex functionality. A variety of boards can be used within a common enclosure.