MultiDyne®
Video & Fiber Optic Systems

VDA-2419
Digital Video Distribution Amplifier
for openGear® Frames

Integrated Matrix With Options For Reclocking and Fail-over Modes

FEATURES

▷ Automatic Rate Detection/Display For All Popular Data Rates

▷ ASI Distribution On All Outputs

▷ Equalizes Up to 120m of Belden 1694A Cable at 3Gbit

▷ Equalizes Up To 150m Of Belden 1694A Cable At 1.485 Gbit

▷ Remote Monitoring Via DashBoard® Software

▷ Configure Locally or Remotely Via DBM

▷ Integrated Cross-Point

▷ Selectable Auto-Mute & Reclocking

▷ Auto Fail-over Mode

▷ Enable/Disable Individual Outputs

▷ Hot Swappable

▷ Designed & Manufactured in New York

▷ THREE (3) Year Warranty

APPLICATIONS

▷ Inter-facility Signal Distribution

▷ QC Monitoring

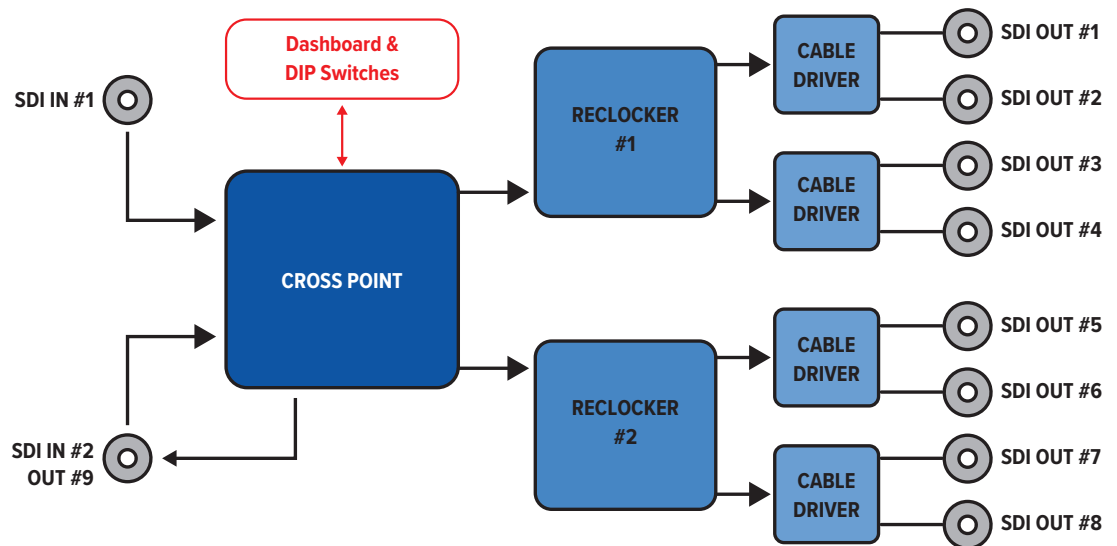▷ Split Feeds

▷ OB Inter-connects Transmission

The VDA-2419 is a multi-rate SDI digital video distribution system for distributing up to nine signals from a common input, or two groups of four signals from two inputs. It also can handle other data rates within the range and specifications of SDI signals. This is presented in a single slot openGear card.

The VDA-2419 incorporates an integrated cross-point matrix that allows not only the ability to assign a given input signal to one or more outputs but also to enable and disable outputs should the need arise. The VDA-2419 has an automatic fail-over mode that,

when selected will switch to the second input should the signal in the first input somehow fail or become corrupted. All outputs are non-inverting and ASI capable. An auto mute feature will silence any input whose signals are under 20Mbps.

All of this is easily controlled either via dip switches on the front card edge or via the openGear Dashboard Management Software (DBM). There is also a lock-out on the card that prevents the card parameters from being changed remotely via DBM.

BLOCK DIAGRAM

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TECHNICAL SPECIFICATIONS

3G/HD/SD-SDI Input

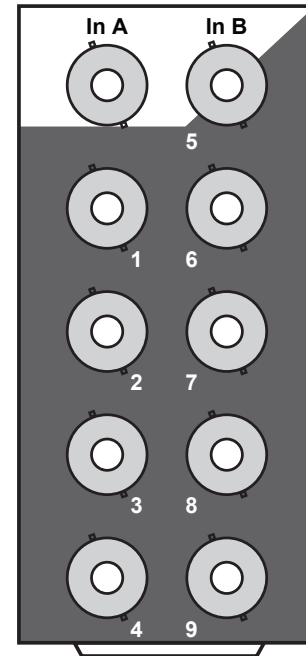|	
Bit Rates	5Mbps to 3Gbps
# of Inputs	1 or 2 BNC
Impedance	75 Ohms
Standard	SMPTE 425M, 297M, 292M, 259M-C & DVB-ASI
Return Loss	>15 dB at 5 MHz - 1.485 GHz >10 dB at 1.5 GHz to 3 GHz

3G/HD/SD-SDI Output

# of Outputs	4 or 9 (ASI Compatible)
Impedance	75 Ohm
Signal Level	800 mV nominal pp
Return Loss	>15 dB at 5 MHz - 1.485 GHz > 10 dB at 1.5 GHz to 3 GHz
Jitter (Wideband)	HD: < 0.3 UI

Cable Length Equalized (w/Belden 1694A)

3 Gbps	>120m
1.485 Gbps	>150m
143-360 Mbps	>350m

Mechanical, Environmental

Power	<5 watts
Temperature	0 to +70C

In A   In B

5

1   6

2   7

3   8

4   9

1x9 or Dual 1x4

ORDERING INFORMATION

Part #	DESCRIPTION
VDA-2419	3G/HD/SD Distribution Amplifier Card
RP-VDA-STD	oGx® Rear Module, 1 HD/SD-SDI Input BNC, 9 HD/SD-SDI Output BNCs OR Dual 1 Input & 4 Outputs
OGX-FR-CN-P	2RU openGear Frame with 1 PS, Cooling & Advanced Networking
OGX-FR-CNS-P	2RU openGear Frame with 1 PS, Cooling, Advanced Networking & SNMP
PS-OGX	Redundant Power Supply for openGear OGX Frame

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