MultiDyne®
Video & Fiber Optic Systems

MDoG-6061 Series

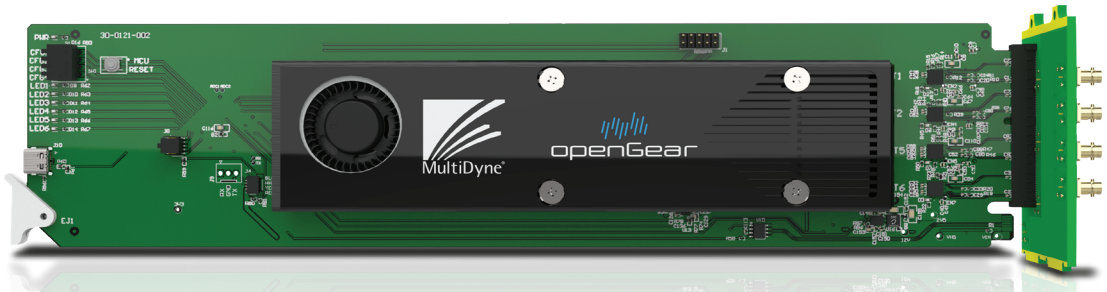
JPEG-XS Codec with TR-08 ST2110-22 Encapsulation/De-encapsulation

FEATURES

- Built-in Frame Syncs
- In-Band NMOS Control
- ST-2022-7 Failover
- Dual Output
- JPEG-XS TR-08 Encoding and Decoding
- Dual 10GbE SFPs
- Remote control monitoring via DashBoard™ software

APPLICATIONS

- Live MultiCam to ST-2110
- IP & SDI Island I/O
- JPEG-XS Encoding & Decoding
- Live Production Environments



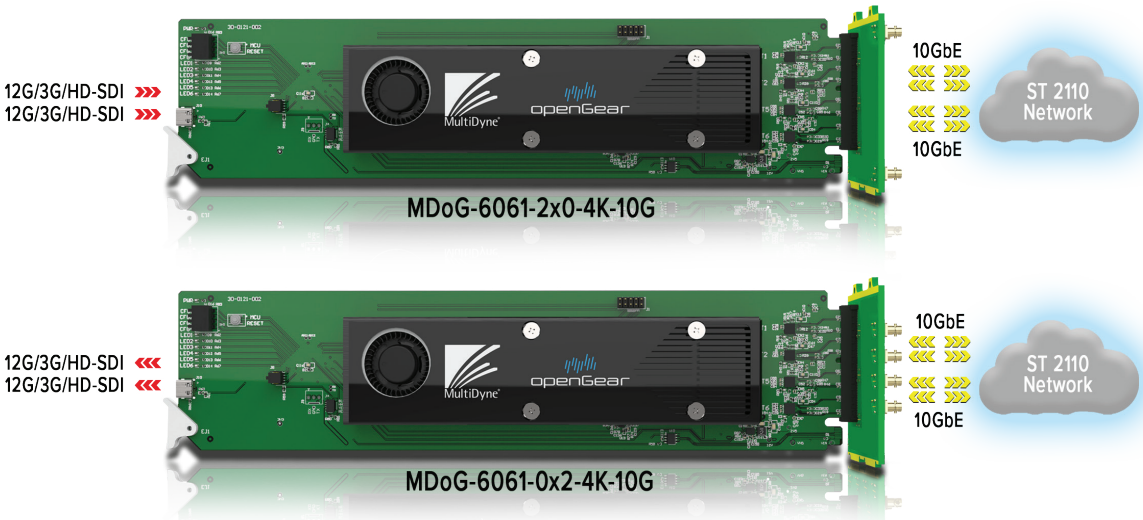
The MDoG-6061 Series from MultiDyne provides SDI to ST2110 encapsulation and de-encapsulation with TR-08 JPEG-XS encoding and decoding for the award winning openGear platform.

The MDoG-6061 Series has two models available. One model provides two ST2110-22 IP outputs while the other provides two 12G-SDI outputs using dual 10GbE SFPs with full support for ST2022-7 hitless redundancy.

Each channel processes 1 video, 16 audio, and 1 ANC data flow and SDI inputs are frame synced before encapsulation. The MDoG-6061 series uses NMOS for in-band control and configuration, while remote monitoring and firmware upgrades are handled through the openGear DashBoard application.

For uncompressed ST-2110 applications where TR-08 JPEG-XS compression is not required please refer to the MDoG-6060 Series.

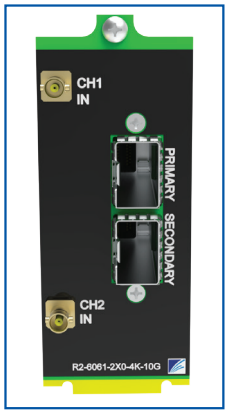
SUPPORTED SIGNALS

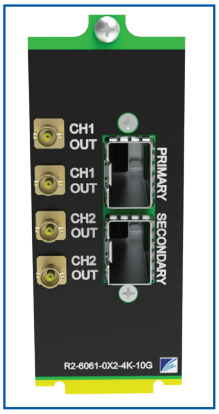


REAR MODULES

R2-6061-2X0-4K-10G

- Occupies 2 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6061 card
- Provides 2 12G-SDI Inputs on HD-BNC connectors
- Cable EQ and Reclocking reliably recover 12G-SDI signals up to 70 Meters over Belden 1694A
- Primary and Secondary 10G SFPs with support for ST2022-7 hitless redundancy





R2-6061-0X2-4K-10G

- Occupies 2 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6061 card
- Provides 2 12G-SDI Outputs per channel on HD-BNC connectors
- Primary and Secondary 10G SFPs with support for ST2022-7 hitless redundancy

MultiDyne
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Specifications subject to change without notice

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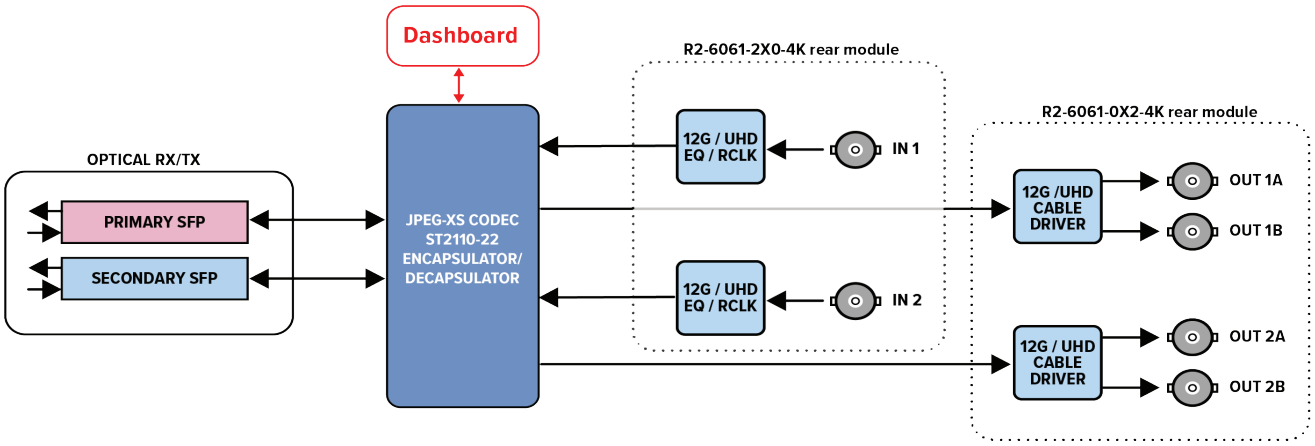
BLOCK DIAGRAM



TECHNICAL SPECIFICATIONS

SDI Input and Output*

Supported SFPs	10G SPF+ Single mode / Multimode
Number of Inputs	2
Number of Outputs	2
Interface	SMPTE, ST292, ST424, DVB-ASI, ST2081, ST2082
Data Rate	1.5Gbps, 3Gbps, 6Gbps, 12Gbps
Input/Output Level	800mVp-p
Input/Output Impedance	75 Ohms
Return Loss	>15 dB up to to 3 GHz
Jitter	< 0.2UI
Rise/Falls Times	< 130ps (HD)
Bit-error Rate	1.00E-11

Physical, Power

openGear® Form Factor	3.025H" x 12.75L" x 2 slots
Power Consumption	15 Watts

Environmental

Operating Temperature Range	-20C to +45C, 0 to 95% RH, non-condensing.

**Note: Some Inputs / Outputs are a function of rear I/O Module used*

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ORDERING INFORMATION

CARD, REAR PANEL, AND SFP OPTIONS	
MDoG-6061-2x0-4K-10G	openGear SMPTE 2110 Card, 2 Inputs 12G-SDI Video, JPEG XS Compression, 10GbE
MDoG-6061-0x2-4K-10G	openGear SMPTE 2110 Card, 2 Outputs 12G-SDI Video, JPEG XS Compression, 10GbE
R2-6061-2x0-4K-10G	Rear I/O Panel for MDoG-6061-2x0-4K-10G, Uses 2 of the 20 slots in openGear OGX-FR-x Frame
R2-6061-0x2-4K-10G	Rear I/O Panel for MDoG-6061-0x2-4K-10G, Uses 2 of the 20 slots in openGear OGX-FR-x Frame
OPT-00121	10G SFP TRX 1310nm, MSA, 10 Km
OPT-00122	10G SFP TRX WDM A, 1270/1330nm, MSA, 10 Km
OPT-00123	10G SFP TRX WDM B, 1330/1270nm, MSA, 10 Km
OPT-00075	10G SFP TRX CWDM – 1271nm, MSA, 10 Km
OPT-00076	10G SFP TRX CWDM – 1291nm, MSA, 10 Km
OPT-00077	10G SFP TRX CWDM – 1311nm, MSA, 10 Km
OPT-00078	10G SFP TRX CWDM – 1331nm, MSA, 10 Km
OPT-00079	10G SFP TRX CWDM – 1351nm, MSA, 10 Km
OPT-00080	10G SFP TRX CWDM – 1371nm, MSA, 10 Km
OPT-00081	10G SFP TRX CWDM – 1391nm, MSA, 10 Km
OPT-00082	10G SFP TRX CWDM – 1411nm, MSA, 10 Km
OPT-00083	10G SFP TRX CWDM – 1431nm, MSA, 10 Km
OPT-00084	10G SFP TRX CWDM – 1451nm, MSA, 10 Km
OPT-00085	10G SFP TRX CWDM – 1471nm, MSA, 10 Km
OPT-00086	10G SFP TRX CWDM – 1491nm, MSA, 10 Km
OPT-00087	10G SFP TRX CWDM – 1511nm, MSA, 10 Km
OPT-00088	10G SFP TRX CWDM – 1531nm, MSA, 10 Km
OPT-00089	10G SFP TRX CWDM – 1551nm, MSA, 10 Km
OPT-00090	10G SFP TRX CWDM – 1571nm, MSA, 10 Km
OPT-00091	10G SFP TRX CWDM – 1591nm, MSA, 10 Km
OPT-00092	10G SFP TRX CWDM – 1611nm, MSA, 10 Km

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