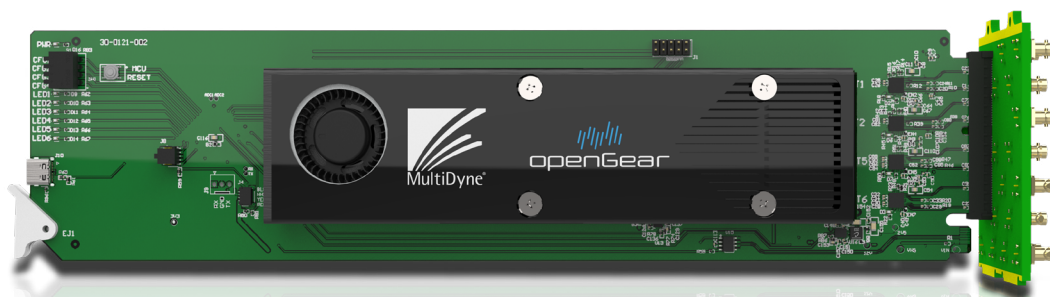


FEATURES

- ▷ Built-in Frame Syncs
- ▷ In-Band NMOS Control
- ▷ ST-2022-7 Failover
- ▷ Input Loop & Dual Output
- ▷ JPEG-XS Upgradeable
- ▷ Dual 25GbE 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-6060 Series from MultiDyne provides advanced SDI-to-ST2110 encapsulation and ST2110-to-SDI de-encapsulation within the award winning openGear platform. This series supports multichannel, bi-directional conversion between SDI and ST2110, offering a range of configurations, including 3x3 3G-SDI with dual 10 GbE SFPs and 6x2 3G-SDI with dual 25 GbE SFPs. Full support for ST2022-7 hitless redundancy ensures uninterrupted signal integrity in critical applications.

Each channel within the MDoG-6060 Series processes:

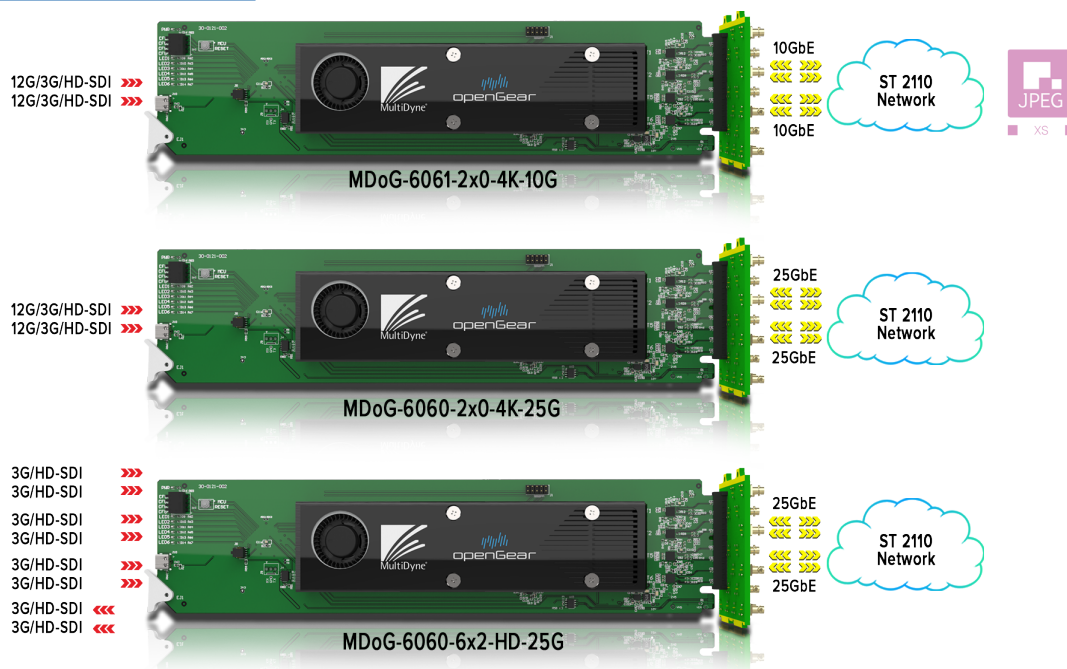
- One video flow
- Four audio flows (each supporting up to 16 audio channels)
- One ANC data flow

SDI inputs are frame synced prior to encapsulation, ensuring seamless integration into IP workflows. For applications requiring TR-08 JPEG-XS compression, the [MDoG-6061](#) builds upon the capabilities of the MDoG-6060, delivering enhanced functionality to address bandwidth efficiency and high-quality video compression requirements.

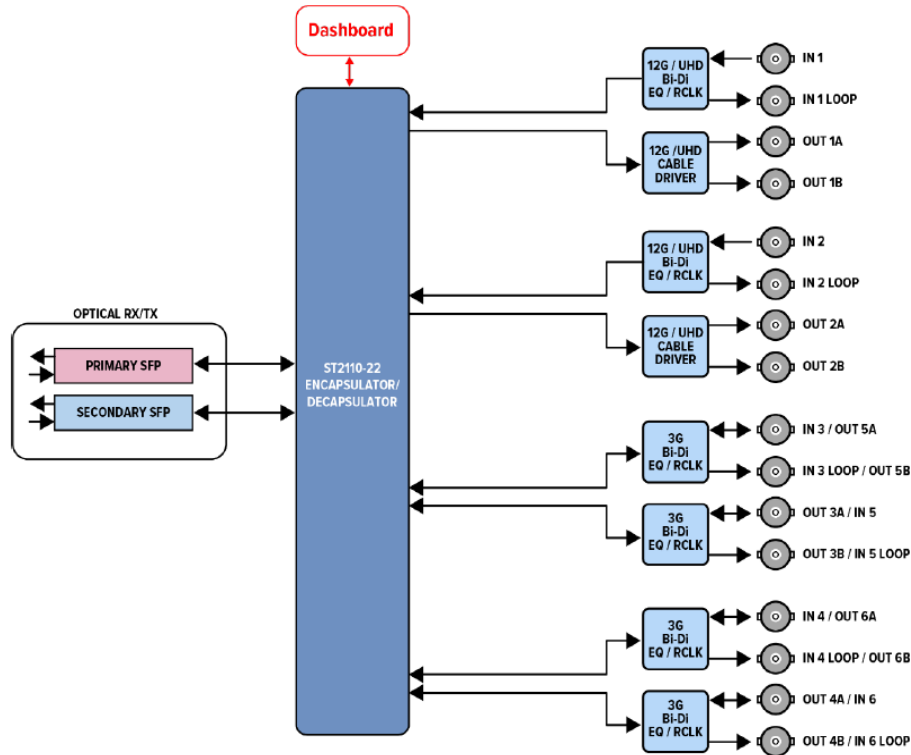
The MDoG-6060 utilizes NMOS for in-band control and configuration, coupled with the openGear DashBoard™ for remote monitoring and firmware upgrades, ensuring ease of use and adaptability to existing network infrastructure.

The MDoG-6060 Series is designed for scalability, reliability, and flexibility, making it the ideal choice for modern broadcast and production environments where seamless transitions between SDI and IP-based workflows are essential.

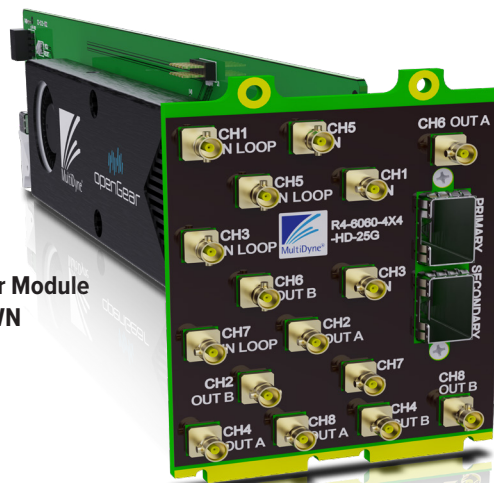
SUPPORTED SIGNALS



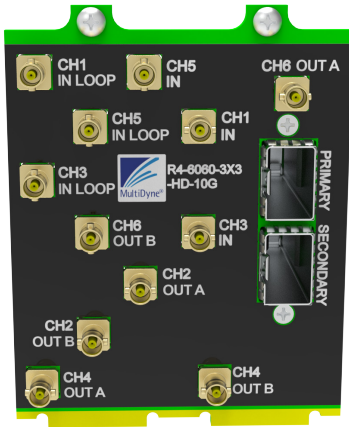
BLOCK DIAGRAM



MDoG-6060-6x2-HD-25G with Rear Module
R4-6060-6x2-HD-25G SHOWN

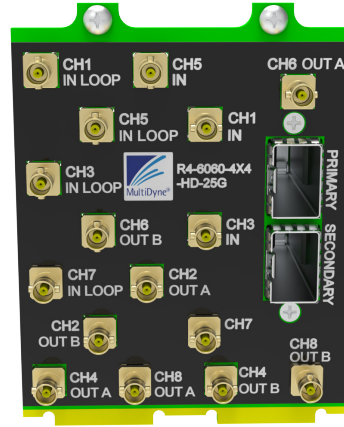


REAR MODULES



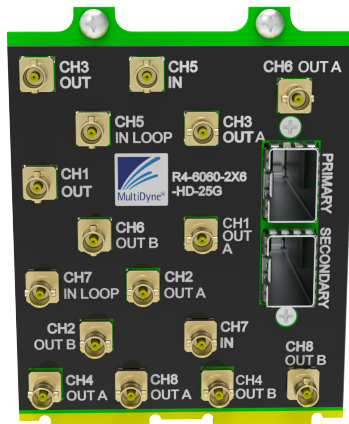
R4-6060-3x3-HD-10G

- Occupies 4 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 3 3G-SDI Inputs with loopouts on HD-BNC connectors
- Provides 3 3G-SDI Outputs with dual outputs on HD-BNC connectors
- Primary and Secondary 10G SFPs with support for ST2022-7 hitless redundancy



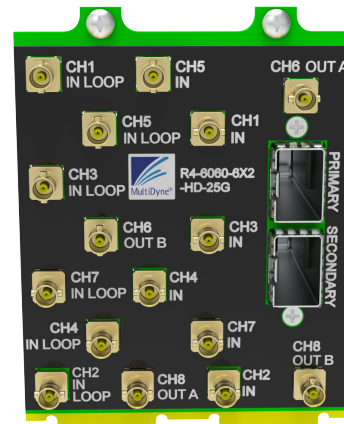
R4-6060-4x4-HD-25G

- Occupies 4 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 4 3G-SDI Inputs with loopouts on HD-BNC connectors
- Provides 4 3G-SDI Outputs with dual outputs on HD-BNC connectors
- Primary and Secondary 25G SFPs with support for ST2022-7 hitless redundancy



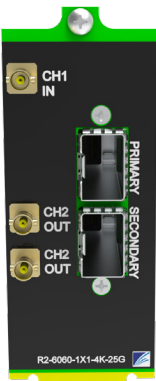
R4-6060-2x6-HD-25G

- Occupies 4 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 2 3G-SDI Inputs with loopouts on HD-BNC connectors
- Provides 6 3G-SDI Outputs with dual outputs on HD-BNC connectors
- Primary and Secondary 25G SFPs with support for ST2022-7 hitless redundancy



R4-6060-6x2-HD-25G

- Occupies 4 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 6 3G-SDI Inputs with loopouts on HD-BNC connectors
- Provides 2 3G-SDI Outputs with dual outputs on HD-BNC connectors
- Primary and Secondary 25G SFPs with support for ST2022-7 hitless redundancy



R2-6060-1x1-4K-25G

- Occupies 2 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 1 12G-SDI Input on HD-BNC connectors
- Provides 2 12G-SDI Outputs on HD-BNC connectors
- Primary and Secondary 25G SFPs with support for ST2022-7 hitless redundancy



R2-6060-2x0-4K-25G

- Occupies 2 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 2 12G-SDI Inputs on HD-BNC connectors
- Primary and Secondary 25G SFPs with support for ST2022-7 hitless redundancy



R2-6060-0x2-4K-25G

- Occupies 2 slots of a standard 20 slot openGear Frame
- Provides I/O for a single MDoG-6060 card
- Provides 2 12G-SDI Outputs with dual outputs on HD-BNC connectors
- Primary and Secondary 25G SFPs with support for ST2022-7 hitless redundancy

TECHNICAL SPECIFICATIONS

SDI Input and Output*

Number of Inputs	1 to 6 input options available
Number of Outputs	1 to 6 output options available
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	0 to +50C, 0 to 95% RH, non-condensing.
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**Note: Some Inputs / Outputs are a function of rear I/O Module used*

ORDERING INFORMATION

CARD OPTIONS (SFPs Ordered Separately)	
MDoG-6060-3x3-HD-10G	openGear SMPTE 2110 Card, 3 Inputs and 3 Outputs 3G-SDI Video, 10GbE
MDoG-6060-4x4-HD-25G	openGear SMPTE 2110 Card, 4 Inputs and 4 Outputs 3G-SDI Video, 25GbE
MDoG-6060-2x6-HD-25G	openGear SMPTE 2110 Card, 2 Inputs and 6 Outputs 3G-SDI Video, 25GbE
MDoG-6060-6x2-HD-25G	openGear SMPTE 2110 Card, 6 Inputs and 2 Outputs 3G-SDI Video, 25GbE
MDoG-6060-1x1-4K-25G	openGear SMPTE 2110 Card, 1 Input and 1 Output 12G-SDI Video, 25GbE
MDoG-6060-2x0-4K-25G	openGear SMPTE 2110 Card, 2 Inputs 12G-SDI Video, 25GbE
MDoG-6060-0x2-4K-25G	openGear SMPTE 2110 Card, 2 Outputs 12G-SDI Video, 25GbE

REAR PANEL OPTIONS	
R4-6060-3x3-HD-10G	Rear I/O Panel for MDoG-6060-3x3-HD-10G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame
R4-6060-4x4-HD-25G	Rear I/O Panel for MDoG-6060-4x4-HD-25G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame
R4-6060-2x6-HD-25G	Rear I/O Panel for MDoG-6060-2x6-HD-25G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame
R4-6060-6x2-HD-25G	Rear I/O Panel for MDoG-6060-4x2-HD-25G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame
R2-6060-1X1-4K-25G	Rear I/O Panel for MDoG-6060-1X1-4K-25G, Uses 2 of the 20 slots in openGear OGX-FR-x Frame
R2-6060-2x0-4K-25G	Rear I/O Panel for MDoG-6060-2x0-4K-25G, Uses 2 of the 20 slots in openGear OGX-FR-x Frame
R2-6060-0X2-4K-25G	Rear I/O Panel for MDoG-6060-0X2-4K-25G, Uses 2 of the 20 slots in openGear OGX-FR-x Frame

SFP OPTIONS	
OPT-00121	SFP, 10G, Transceiver, 1310nm, 10km, MSA
OPT-00114	SFP, 25G, Transceiver, 1310nm, 10km, MSA
OPT-00127	SFP, 10G, Transceiver, 850nm, Multimode, 100 meters, MSA
OPT-00115	SFP, 25G, Transceiver, 850nm, Multimode, 100 meters, MSA