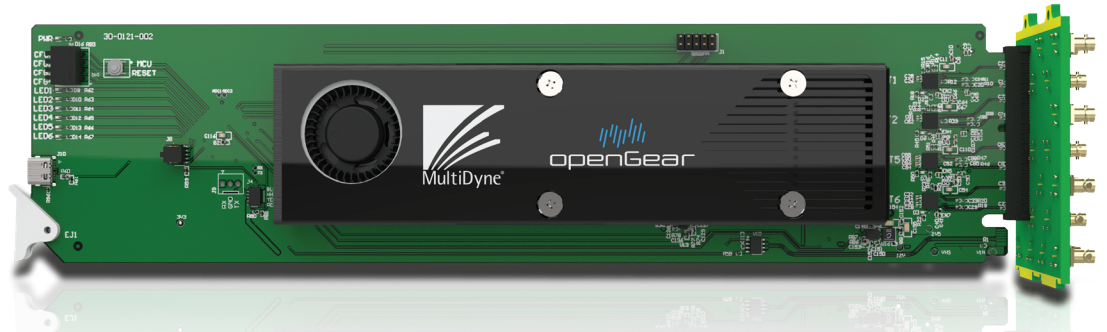


## FEATURES

- ▷ 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



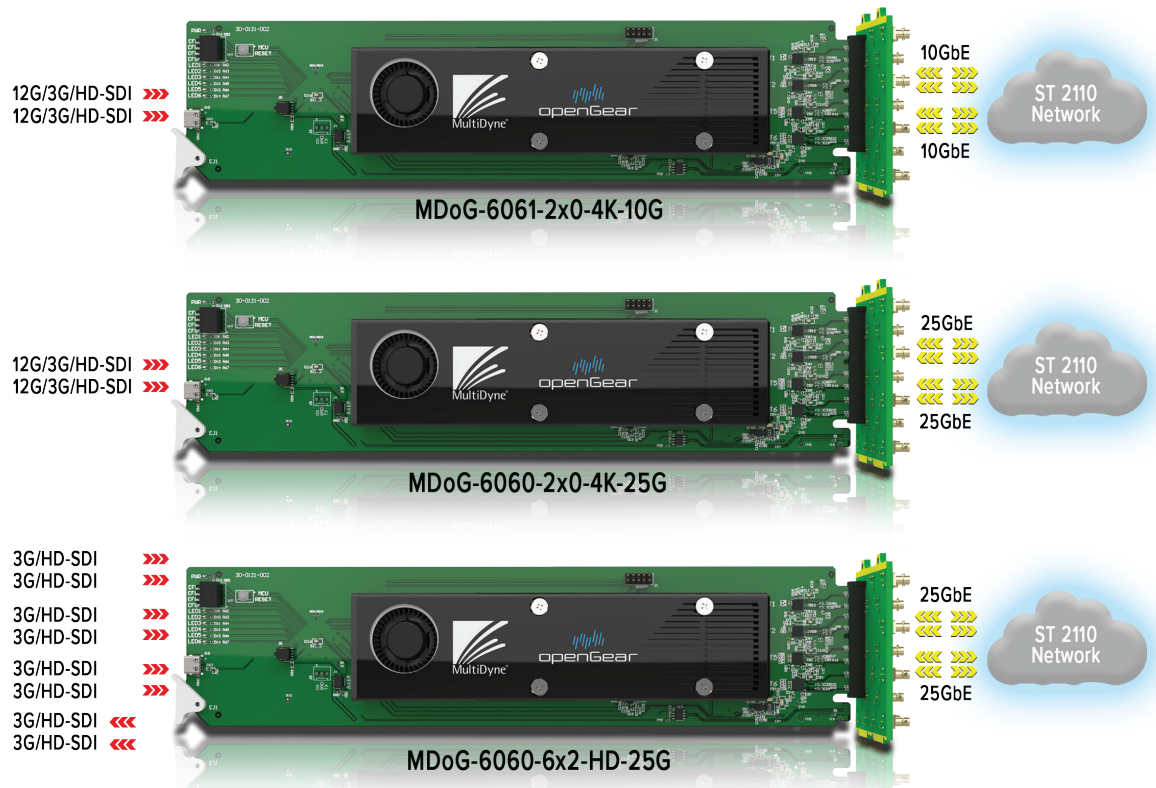
The MDoG-6060 Series from MultiDyne provides SDI to ST2110 encapsulation and ST2110 to SDI de-encapsulation for the award winning openGear platform.

The MDoG-6060 series of gateways provide multichannel and bi-directional conversion between SDI and ST2110. Several models are available ranging from 3x3 3G-SDI using dual 10 GbE SFP to 6x2 3G-SDI using dual 25 GbE 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-6060 series uses NMOS for in-band control and configuration, while remote monitoring and firmware upgrades are handled through the openGear DashBoard application.

For applications where TR-08 JPEG-XS compression is required please refer to the MDoG-6061 Series.

## SUPPORTED SIGNALS



**MDoG-6061-2x0-4K-10G**

- 12G/3G/HD-SDI >>>
- 12G/3G/HD-SDI >>>
- 10GbE >>>>>
- 10GbE >>>>>
- 10GbE >>>>>
- 10GbE >>>>>
- ST 2110 Network

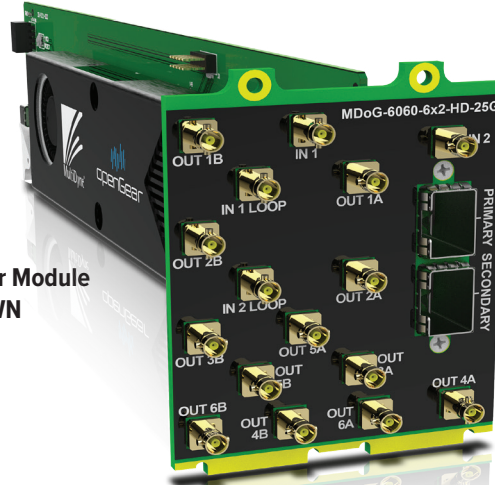
**MDoG-6060-2x0-4K-25G**

- 12G/3G/HD-SDI >>>
- 12G/3G/HD-SDI >>>
- 25GbE >>>>>
- 25GbE >>>>>
- 25GbE >>>>>
- 25GbE >>>>>
- ST 2110 Network

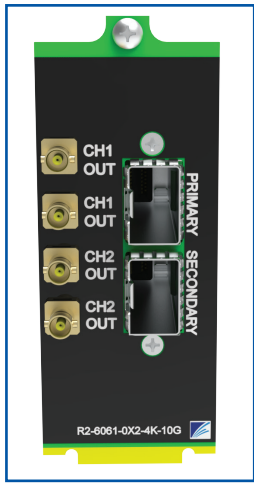
**MDoG-6060-6x2-HD-25G**

- 3G/HD-SDI >>>
- 3G/HD-SDI >>>
- 3G/HD-SDI >>>
- 3G/HD-SDI >>>
- 3G/HD-SDI >>>
- 3G/HD-SDI >>>
- 3G/HD-SDI <<<
- 3G/HD-SDI <<<
- 25GbE >>>>>
- 25GbE >>>>>
- 25GbE >>>>>
- 25GbE >>>>>
- ST 2110 Network

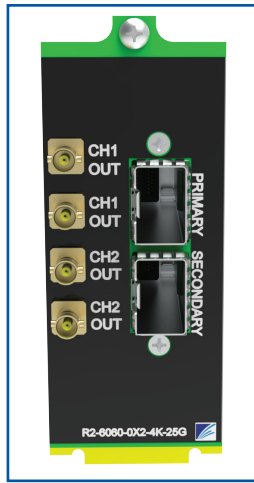
**REAR MODULES**



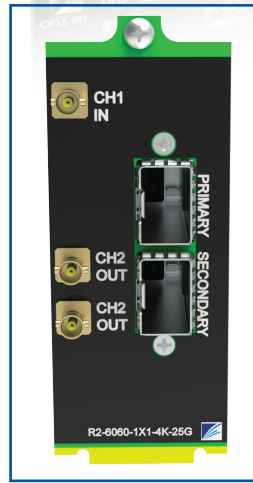
**MDoG-6060-6x2-HD-25G with Rear Module  
R4-6060-6x2-HD-25G SHOWN**



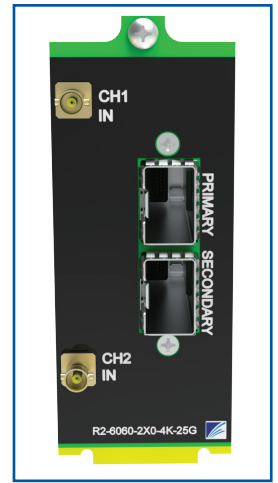
R2-6060-0X2-4K-10G



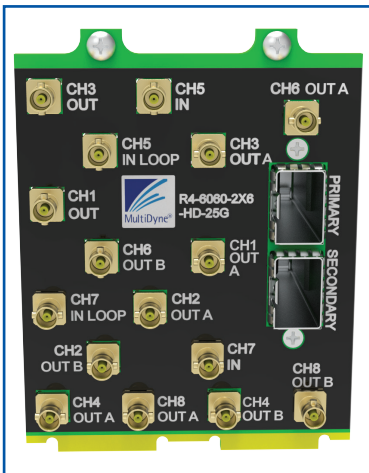
R2-6060-0X2-4K-25G



R2-6060-1X1-4K-25G



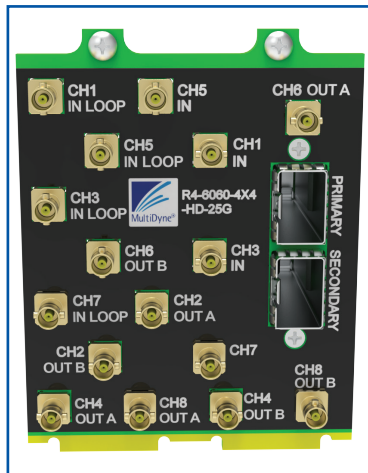
R2-6060-2X0-4K-25G



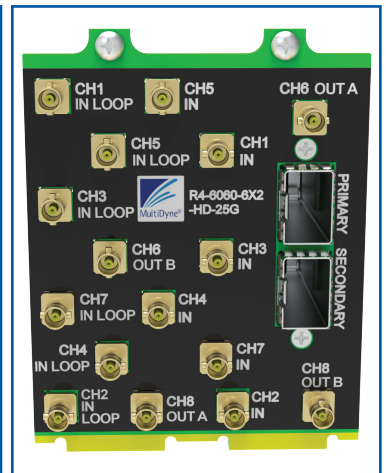
R4-6060-2X6-HD-25G



R4-6060-3X3-HD-10G



R4-6060-4X4-HD-25G



R4-6060-6X2-HD-25G

## 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 | -20C to +45C, 0 to 95% RH, non-condensing. |
|-----------------------------|--|

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

## ORDERING INFORMATION

| FRAME OPTIONS        |  |
|----------------------|--|
| 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 |  |
|--------------------|--|
| R2-6060-0X2-4K-10G | Rear I/O Panel for MDoG-6060-0X2-4K-10G, 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 |
| 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 |
| 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 |
| R4-6060-1x1-4K-25G | Rear I/O Panel for MDoG-6060-1x1-4K-25G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame |
| R4-6060-2x0-4K-25G | Rear I/O Panel for MDoG-6060-2x0-4K-25G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame |
| R4-6060-0x2-4K-25G | Rear I/O Panel for MDoG-6060-0x2-4K-25G, Uses 4 of the 20 slots in openGear OGX-FR-x Frame |