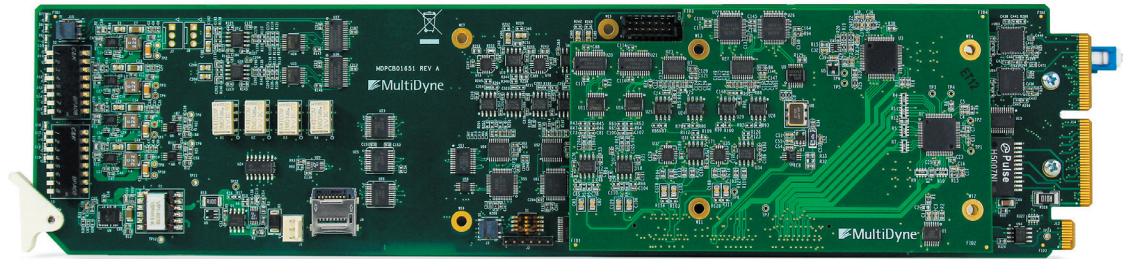


## FEATURES

- ▷ 4 - 3G/HD-SDI
- ▷ 8x8 Audio Line/AES
- ▷ Genlock
- ▷ Time Code, GPIO, Data
- ▷ Ethernet

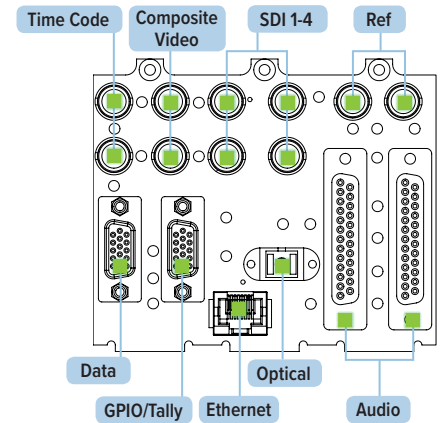
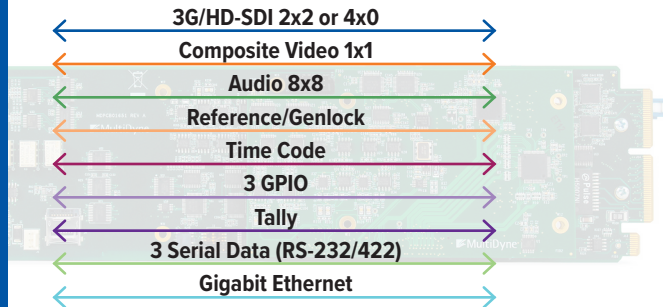
## APPLICATIONS

- ▷ Studio Links
- ▷ Signal Trunking
- ▷ Signal distribution
- ▷ Campus interconnects
- ▷ Transmission links
- ▷ Telco circuits
- ▷ Outside Broadcast  
"B-Unit" interconnects

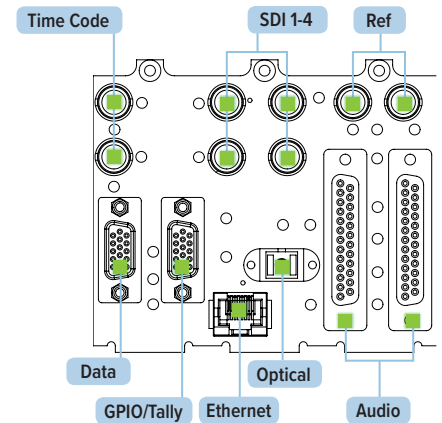
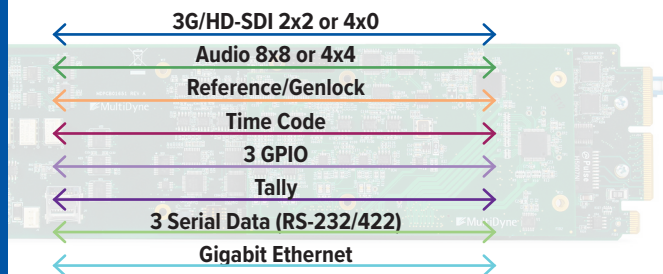


The OG-3600 series of modules for the openGear platform provides flexibility for all fiber transport needs. Signals are transported uncompressed and unprocessed from maximum signal integrity. Included signals are 3G HDSDI, audio, data, Ethernet, and reference, all compatible with the industry standard openGear platform offering SNMP management via Dashboard software.

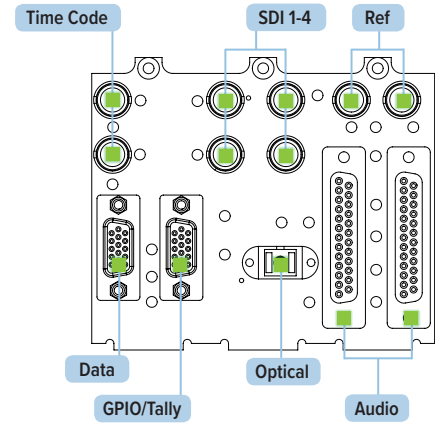
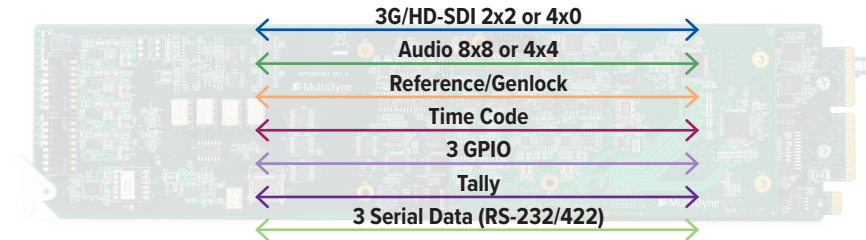
### OG-3601 SPECIFICATIONS



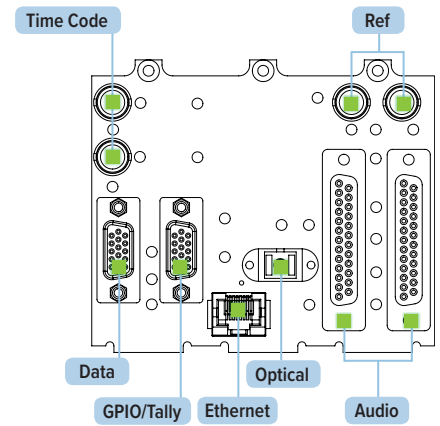
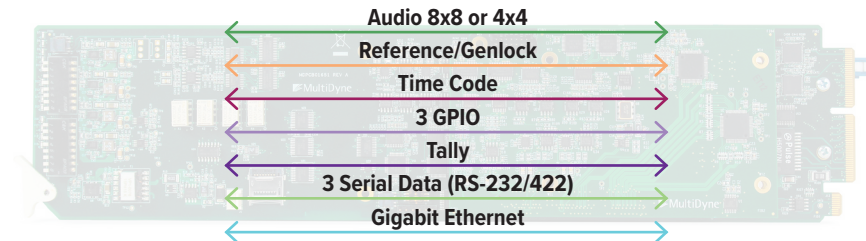
### OG-3602 SPECIFICATIONS



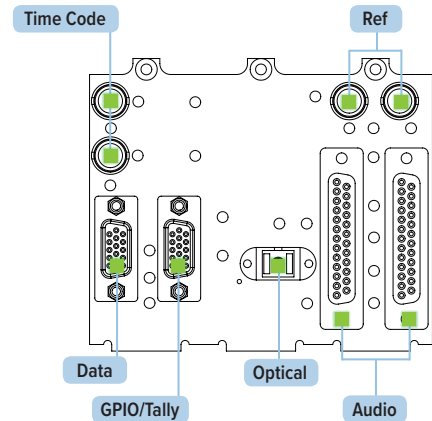
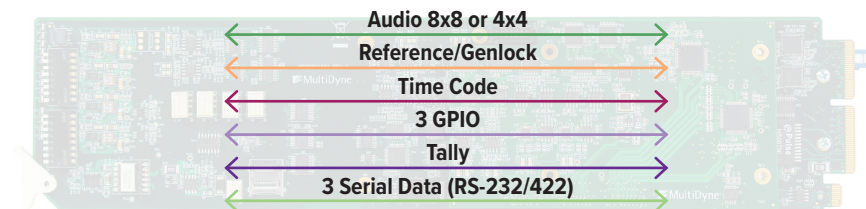
## OG-3603 SPECIFICATIONS



## OG-3604 SPECIFICATIONS

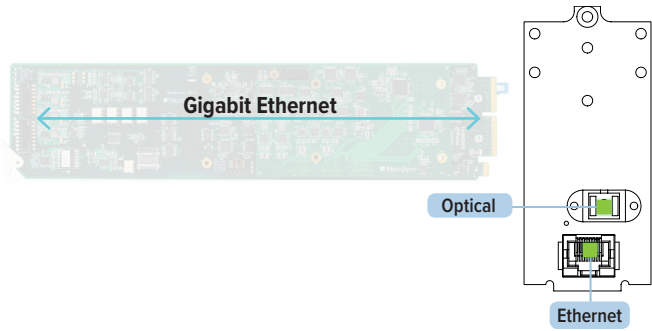


## OG-3605 SPECIFICATIONS

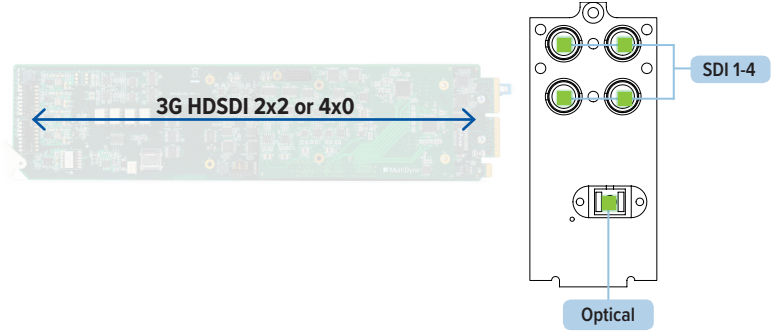


**FEATURES**

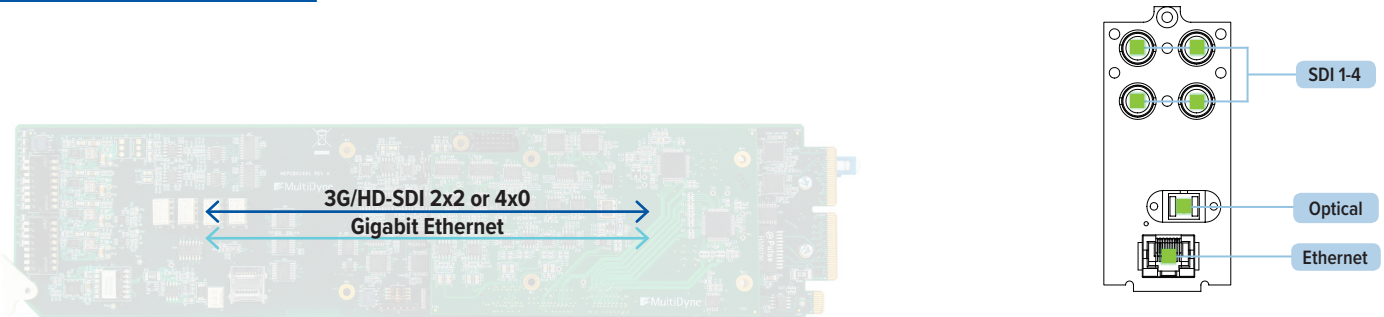
**OG-3606 SPECIFICATIONS**



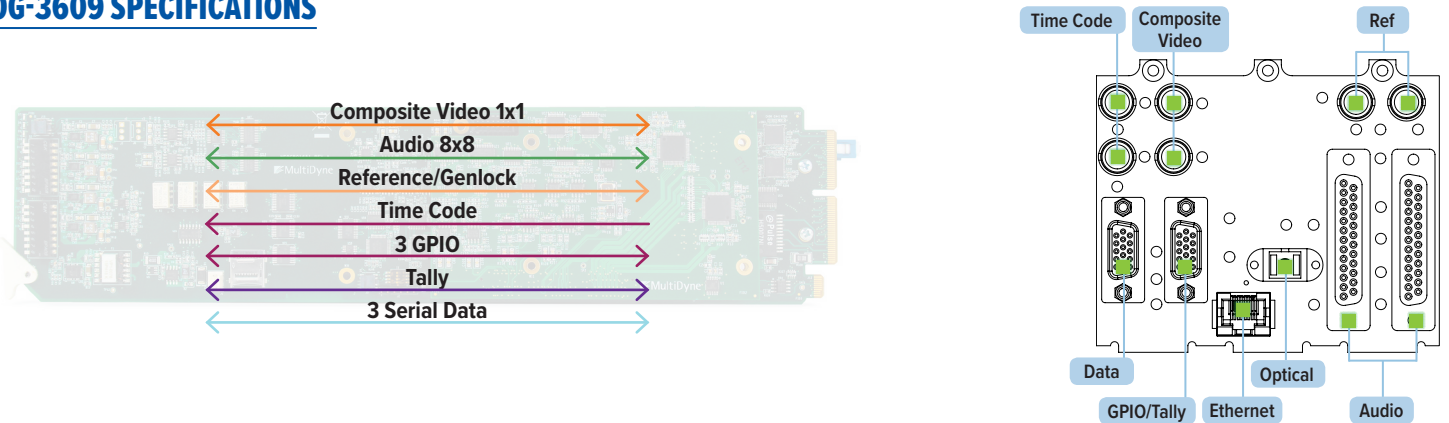
**OG-3607 SPECIFICATIONS**



**OG-3608 SPECIFICATIONS**



**OG-3609 SPECIFICATIONS**



## TECHNICAL SPECIFICATIONS

### Digital Video

Number of Inputs	2 or 4 input options available
Number of Outputs	2 or 4 output options available
Interface	SMPTE ST259, ST292, ST424, DVB-ASI
Data Rate	270Mbps, 1.5Gbps, 3Gbps
Input/Output Level	800mVp-p
Input/Output Impedance	75 Ohms
Return Loss	>15 dB 5 MHz - 1.485 GHz >10 dB up to to 3 GHz
Jitter	< 0.2UI
Rise/fall times	< 800ps (SD), < 130ps (HD)
Bit-error rate	10e-12

### Video, CVBS

Number of Inputs	1
Number of Outputs	1
Type	Analog NTSC, PAL
Impedance	75 Ohms

### Video, Genlock

Number of Inputs	1 (REF1 On OpenGear Frame)
Number of Outputs	1
Type	Analog Black Burst (NTSC, PAL), HD Tri-Level
Impedance	75 Ohms

### Audio

Number of Input Channels (mono)	4 or 8 input options available
Number of Output Channels (mono)	4 or 8 output options available
Type	Balanced. Analog Line-Level or AES3, selectable in groups of 2
Analog Audio:	
Level	+4dBu nominal, +24dBu max.
Input Impedance	> 10k Ohms
Output Impedance	22 ohms
S/N	>90db
Frequency Response	+/-0.1db 20Hz – 20kHz
Distortion	< 0.05%
Digital Audio:	
Sample Rate	Up to 96kHz
Bit Depth	Up to 24 bits

### Serial Data

Number of Channels	3
Type	RS232, RS422
Data Rate	DC – 1Mbps

### Ethernet

Number of Channels	1
Data Rate	10/100/1000 Base-T

### Timecode

Number of Inputs	1
Number of Outputs	1
Inputs	Unbalanced, 15Vp-p max
Outputs	Unbalanced, 3Vp-p

### Tally/GPIO

Number of GPI Inputs	3
Number of Tally Inputs	1
Number of GPI Outputs	3
Number of Tally Outputs	1
Inputs	Short to GND or TTL Low to Activate
Outputs	Relay Contact Closure (30V, 2A max)

### Optical

Operating Wavelengths	1471-1611nm
Tx Laser Output Power	0dBm (Class 1 Laser)
Receiver Sensitivity	-20dBm
Fiber Compatibility	Single-mode
Optical Connector Types	SC, ST, LC
Distance limit	40km w/Single-mode

### Mechanical/Environmental

Dimensions (HxLxW)	
OpenGear Form Factor	3.025H" x 12.75L" x 3 slots
Environmental	0 to 50°C, 0 to 95% RH, non-condensing.
Power Consumption	12.5 Watts



**ORDERING INFORMATION**

<b>OG-3601 (Fully Loaded)</b>
OG-3601-4T-CA-8A-EA
OG-3601-4R-CB-8B-EB
OG-3601-2A-CA-8A-EA
OG-3601-2B-CB-8B-EB

<b>OG-3602 (HD video, audio &amp; ethernet)</b>
OG-3602-4T-XX-8A-EA
OG-3602-4R-XX-8B-EB
OG-3602-2A-XX-8A-EA
OG-3602-2B-XX-8B-EB
OG-3602-4T-XX-4A-EA
OG-3602-4R-XX-4B-EB
OG-3602-2A-XX-4A-EA
OG-3602-2B-XX-4B-EB

<b>OG-3603 (HD video &amp; audio)</b>
OG-3603-4T-XX-8A-XX
OG-3603-4R-XX-8B-XX
OG-3603-2A-XX-8A-XX
OG-3603-2B-XX-8B-XX
OG-3603-4T-XX-4A-XX
OG-3603-4R-XX-4B-XX
OG-3603-2A-XX-4A-XX
OG-3603-2B-XX-4B-XX

<b>OG-3604 (Audio &amp; ethernet)</b>
OG-3604-XX-XX-8A-EA
OG-3604-XX-XX-8B-EB

<b>OG-3604 (Audio &amp; ethernet)</b>
OG-3604-XX-XX-4A-EA
OG-3604-XX-XX-4B-EB

<b>OG-3605 (Audio)</b>
OG-3605-XX-XX-8A-XX
OG-3605-XX-XX-8B-XX
OG-3605-XX-XX-4A-XX
OG-3605-XX-XX-4B-XX

<b>OG-3606 (Ethernet)</b>
OG-3606-XX-XX-XX-EA
OG-3606-XX-XX-XX-EB

<b>OG-3607 (HD video)</b>
OG-3607-4T-XX-XX-EA
OG-3607-4R-XX-XX-EB
OG-3607-2A-XX-XX-EA
OG-3607-2B-XX-XX-EB

<b>OG-3608 (HD video &amp; ethernet)</b>
OG-3608-4T-XX-XX-EA
OG-3608-4R-XX-XX-EB
OG-3608-2A-XX-XX-EA
OG-3608-2B-XX-XX-EB
OG-3608-1T-XX-XX-EA
OG-3608-1R-XX-XX-EB

<b>OG-3609 (Composite video &amp; audio)</b>
OG-3609-XX-CA-8A-XX
OG-3609-XX-CB-8B-XX

## DashBoard Overview

DashBoard is an open platform for facility control and monitoring that enables users to quickly build unique, tailored CustomPanels that make complex operations simple. DashBoard provides control and monitoring to hundreds of products from over 50 partners, including MultiDyne, within the openGear and DashBoard Connect ecosystem. Its ability to craft application specific solutions across this breadth of products is what makes DashBoard so special.

## DashBoard Free Application

DashBoard is a free application, available for download from this website that provides Control and Monitoring for the openGear® signal processing and DashBoard Connect™ devices such as video servers. It eliminates the need to upload vendor specific GUIs or install proprietary software.

The most current Production Release of DashBoard is version 8. DashBoard v8 adds in a lot of features to make developing CustomPanels easier and provides new features to get the most out of those panels. The latest version can be downloaded here. [www.rossvideo.com/control-systems/dashboard](http://www.rossvideo.com/control-systems/dashboard)

The openGear platform provides cool, practical technology from both MultiDyne and openGear partners, and have demonstrated a commitment to open architecture, and open facility control and monitoring solutions.

DashBoard offers the ability to view multiple openGear frames with full control and alarming of all populated slots inside a frame. Panel Builder allows users to create custom graphical user interfaces, combining multiple control and status parameters from any combination of cards and frames on a single view. This simplifies the setup of numerous devices in a large installation and offers the ability to centralize monitoring.

The openGear devices define their controllable parameters and layout to DashBoard, so the control interface is always up-to-date. Alarms raised by devices in the frame bubble up to the uppermost level, making it quick and easy to identify potential failures and drill-down to the root cause.

openGear frames are automatically discovered and are available in the TreeView where they can be custom identified, collapsed to view just the frame, or opened to view available devices in the frame.

Device control and monitoring is simple and easy. The GUI give a quick summary view window displaying the current state of the device such as input and reference presences, output standard, etc. Control is simplified with multiple categories that group common parameters such as Timing Control, Output Configuration, Proc Control and Alarm Configuration.

DashBoard also offers the ability to upgrade software on devices in the field without the need to replace any on-board components. Batch software upgrades allow multiple cards, of the same model, to be upgraded at one time, right from any DashBoard terminal on the network.

DashBoard allows for multiple control windows to be active and available on one screen which is useful when a functional path involves more than a single device. DashBoard device window layouts can quickly be saved and recalled, allowing for quick access to frequently used devices. Layouts can consist of a single device window, multiple device windows displayed full screen in tabs, or multiple devices on one shared screen.

