



MultiDyne®

# 2024 Product Brief

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[www.multidyne.com](http://www.multidyne.com)

*Made In USA*

# SILVER|BACK



## Cinematic Live Multicam



### Multipurpose Your 12G / 4K & HD / 3G Cameras

The SilverBack V provides a robust, full bandwidth fiber optic link between any 12G, Quad-Link or Dual-Link 4K camera and your truck, control room or “video village” position. The system puts power and all of the signals needed for multi-camera 4K/UHDTV production onto a single tactical or SMPTE hybrid fiber cable, ensuring trouble-free connectivity on any studio or remote production.

The SilverBack converts the latest Digital Cinema Cameras into SMPTE Studio Cameras ideal for cinematic live multicam applications. The system is available in multiple video I/O configurations and can support Quad Link 3G-SDI or 12G-SDI based 4K signals as well as up to four 3G. Full camera control is provided by the camera manufacturer’s control panel via serial or a 10/100/GigE Ethernet path. Genlock, Intercom, Tally and GPIO are also provided.

### FEATURES

- All Signals on ONE Cable
- Optional 12G-SDI, 6G-SDI & 3G-SDI I/O
- 10+Km Operation
- 2 Channels of Intercom
- Anton-Bauer or “V-mount” Battery Option
- Integrated Tally Indicator
- 1GbE Ethernet
- Camera RCP Control
- 1 Additional Data Path (232/422)
- Optical Connector on Integrated Swivel
- Top & Bottom Dovetail Plates with 1/4-20 & 3/8-16 Taps for Mounting Accessories
- Optional Tally/GPIO Cable
- Optional Tally Light Accessory
- Rugged Lightweight, Low-profile Design
- Designed and Manufactured in the USA



SilverBack-APE (Control Side)



SilverBack-APE (Connector Side)

Digital Cinema Camera manufacturers are increasingly introducing cameras that require 24VDC power in order to operate. In response, MultiDyne has developed the APE Advanced Power Extension integrated accessory for the SilverBack lineup. In addition to powering these new 24VDC cameras, the APE provides comprehensive accessory power outputs for servos, monitors and just about any accessory you need to power on your camera rigs.

### APPLICATIONS

- 4K Sports & OB
- Live Music & Entertainment
- Digital Cinema
- High Frame Rate Acquisition
- Live Cinematic Multi-cam

For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)



# VB-SERIES

## Customizable Extension

### Customizable PTZ / POV Camera Extension

Purpose-built hardware plays an important role in broadcast and professional AV. These industries continue to grow and change however, and content creators simply need more flexible options to meet varied and changing requirements for their productions. Adaptable to most professional PTZ and POV cameras and able to transport a full complement of video, audio and data signals, the VB Series offers robust, versatile solutions to serve almost any broadcast and AV production application imaginable.

### FEATURES

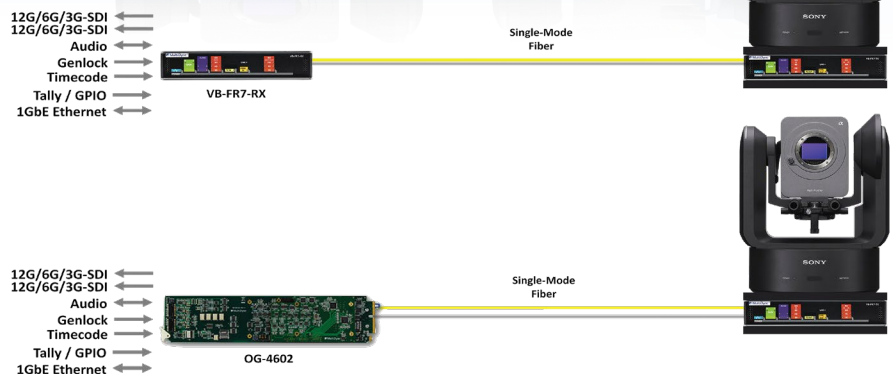
- Up to (X) Channels of 12G/6G/3G/HD-SDI
- RS-232/422/485 Serial Data
- Tally and GPIOs
- Genlock (Bi-Level or Tri-Level)
- 1GbE Ethernet w/ 2 Port Hub
- Optional POE++
- Optional Remote Power via Hybrid Fiber
- Optional Universal Mounting Brackets

### APPLICATIONS

- Remote PTZ / POV Camera Connectivity
- Robotic Camera Control
- Bulk 12G-SDI & 3G-SDI Signal Extension
- Extend multiple optically isolated 1GbE LANs over 1 fiber
- Analog and AES Audio transport



### VB to VB or VB to openGear Cards



**Custom Tailor a VB Solution for Your Application with Our Configurator Tool**  
**Available Here at <https://configurator.multidyne.com/launcher>**

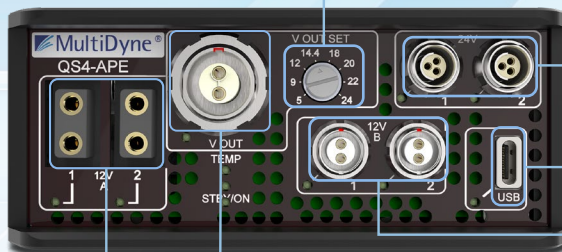
# QS4-APE

## SMPTE Fiber 12/24V Accessory Power Supply



### Throwdown Power Extension With Optical Pass Through

The QS4-APE model is a versatile “throw-down” unit providing a selectable 5 VDC, 9 VDC, 12 VDC, 14.4 VDC, 18 VDC, 20 VDC, 22 VDC or 24 VDC main output via a LEMO EEG.2B.302.CLL connector for general applications, as well as multiple accessory outputs: 2, D-Tap/P-Tap 12 VDC outputs; 2, LEMO EEG.0B.302.CLL connector 12 VDC outputs; 2, Fischer DBP 102 A052-139 connector 24 VDC outputs and a “power only” USB-C port to operate and charge devices such as cell phones, computer tablets etc. with up to 15 WDC available power.



5-24 VDC Output Select

2x Fischer 24 VDC at up to 10 ADC shared

USB-C 5 VDC @ 0.1 – 3.0 ADC, 15 W total

2x LEMO 12 VDC at up to 10 ADC shared

1x LEMO 5-24 VDC Selectable Out

2x D-Tap 12 VDC at up to 10 ADC shared



2x Single-Mode Fiber

1x SMPTE 304M Hybrid Connector

For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)



# HUT-APE

## Advanced Power Extension



### FEATURES

- SMPTE 304M Standard
- Operate Cameras on Plain Single Mode Fiber
- Take Advantage of Installed Fiber Backbones
- Extend Distance Without Sacrificing Performance
- Carry Less Hybrid Cable
- Choice of Optical Connectors
- Can Provide Power for Cameras Up to 3km
- Supports Camera Chains from Sony, Grass Valley, Panasonic, and more
- Works with Optional Optical Repeater/ Remapper FiberSaver
- Standard Remote Camera Shut-Off
- Rugged Design
- Designed and Manufactured in the USA

### Extend Camera Chains Beyond SMPTE Cable Limitations Via Standard Single Mode Fiber

The HUT-APE system frees camera chains from the limitations of hybrid copper and fiber cabling permitting cameras to be separated from their CCUs by distances of over 10km using inexpensive, conventional single mode fiber. This has many advantages over SMPTE hybrid cable including:

- Eliminating RF, EMI and grounding issues
- Faster set and strike times saves time and money
- Reduced weight makes for lighter OB trucks, B-units and cable shipments

#### CONNECT ANYWHERE EASILY

The plug and play system allows camera chains to connect via a facility's fiber infrastructure or on tactical fiber cable in the field using industry-standard connectors, such as STs, LCs, SCs, or OpticalCON. The HUT system works by "spoofing" (or "tricking") the camera and CCU into seeing a physical copper connection between them when connected only by single mode fiber cable.

#### LOCAL OR REMOTE POWER

After a long run of single mode fiber, HUT-enabled camera systems can be configured in one of two ways:

1. Power the camera with the HUT-APE with up to 3km of hybrid cable. Power is sufficient for hand-held cameras or cameras installed in sleds with long lenses and other high-power accessories.
2. Power the camera locally and use the HUT-CS.

#### ROUTE AND MULTIPLEX CAMERAS

Once the hybrid cable is removed, a camera chain can be easily routed through optical routers or used with MultiDyne's FiberSaver systems to multiplex up to nine cameras onto just one strand of a single mode fiber.

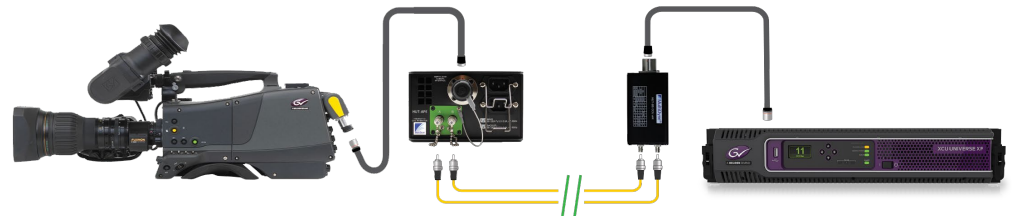
#### USE LESS FIBER WITH FIBERSAVER

While passive to the camera chain optics, the HUT-APE can be used with the MultiDyne line of FiberSaver wavelength shifting muxes.

- Multiplex a camera chain onto a single fiber strand
- Boost the optical range
- Remap the camera & CCU optics to different wavelengths

### APPLICATIONS

- Remote Broadcasting
- Sports Production
- Shared Control Rooms
- Campus Facilities
- Arenas and Stadiums



#### HUT-APE SUPPORTS THE FOLLOWING CAMERAS:

MultiDyne	SilverBack-APE: Advanced Power Extension adapter with multiple power outputs. Can be matched with any Camcorder or Cine cameras from any manufacturer. Attaches to a battery plate, on the back of a camera, from IDX or Anton Bauer
Grass Valley	Focus or LDX cameras
Sony	HDC-1000/2000/3000/4300 series camera chains with SMPTE fiber connections
Panasonic	AK-HC3900

# VF-9000 Series



## Versatile Data & Video Fiber Optic Transport Platform 1GbE RJ-45 & BNC or HD-BNC Coaxial I/O up to 12G-SDI

The VF-9000 is a 1RU, high density video fiber optic transport platform with 18 optical I/O (9 or 18 SFP Ports), it can be configured with up to 18 full size BNCs or 36 HD-BNCs. The system also supports up to 9 1GbE optical extensions, and provides the user with the option to handle SDI and LAN signals in one frame.

The configuration of video input vs. output is configured automatically, following the I/O of the SFP installed. If a dual TX SFP is inserted into a slot, the two BNCs at the back of the slot become inputs. If a dual RX SFP is inserted into a slot, the two BNCs at the back of the slot become outputs. There are no setups or configurations required.

If the unit is populated with CWDM SFPs, all 18 signals can be multiplexed/de-multiplexed over from one SM fiber. Next to the SFP cages are the optical multiplexer/de-multiplexer I/O's, configured with LC ports for easy patching with generic, inexpensive LC patch cables.

Each video card in the VF-9000 has 2 BNCs or 4 HD-BNCs on the back, and one or two SFP cages in the front. These cards can be ordered with two channel SFPs and two BNCs as described above, or with a single BNC input and loop output. In this case, there will be only one optical output. The reciprocal receiver card would have only one optical input with a dual BNC output.

Ideal for use in OB vans where space is limited and high density is a necessity. With dual hot swappable power supplies, there is peace of mind with power redundancy and no need for cumbersome external power supplies.

## FEATURES

- High Density – Up To 9 1GbE RJ-45, 18 BNCs or Up To 36 HD-BNCs
- All I/O Are Configured Automatically Based On VFC/ SFP Selection
- SFP Modules Can Be Hot-swapped Without De-cabling Coaxial Connections
- Redundant AC Power Supplies
- Optional Single or Dual Integrated CWDM Muxes/ De-Muxes
- Condense Signals Up To 36 Signals on Two SM Fibers
- Can Be Used For Video Transport, Signal Regeneration or Wavelength Shifting.

## APPLICATIONS

- Sports Broadcast
- ENG, EFP
- Military
- Live Stage Events
- Intra & Inter-Facility Connection
- Campus & Metro Transport



**Custom Tailor a VF-9000 Solution for Your Application with Our Configurator Tool  
Available Here at <https://configurator.multidyne.com/launcher>**



## Campus / Venue Bi-Directional Video / Audio / Intercom / Data Extension Platform

### FEATURES

- All signal I/O extended over 2x Single-Mode Fibers
- Supports 8x Camera Feeds & 8x SDI Return Channels
- Available in 3G-SDI and 12G-SDI Versions.
- Supports up to 8x Wet/Dry Partyline Intercom Channels
- 2x Independent 1GbE LAN Extensions
- 2x Independent RS-232/422/485 Data Channels
- 8x Mic-Pre Inputs with Phantom Power
- 8x Line Level Analog Audio Outputs
- Tri-Level or Bi-Level Genlock Output
- Redundant 48VDC Power Supplies
- Battery Plate for Emergency Backup
- Gold Mount & V-Mount Battery Plate Options

### APPLICATIONS

- Campus / Stadium Production Signal Extension
- Truck to Control Room Links
- Control Room to Studio Links
- Metro Intra-Facility Connections



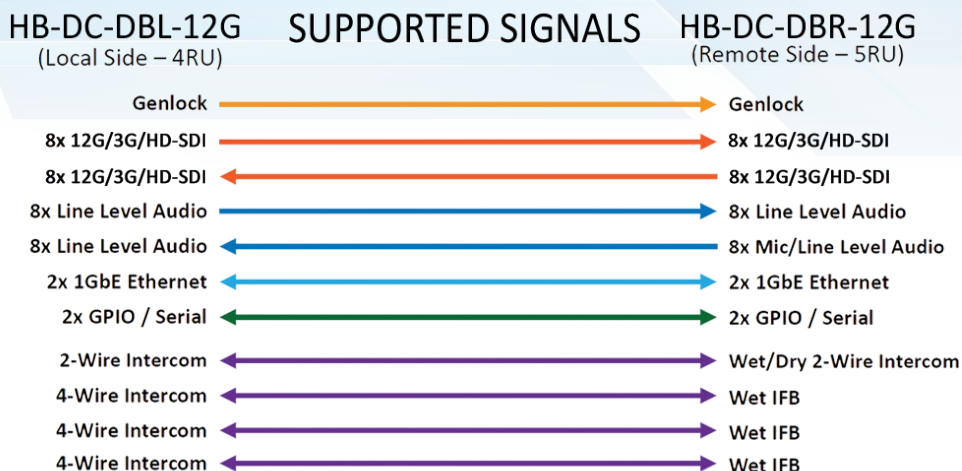
# HONEY | BADGER

## Stadium Signal Extension

The HoneyBadger doesn't care how big your venue is. It can handle the job with a feature set that is unavailable elsewhere in the broadcast production signal extension market.

With support for 8 cameras and return feeds plus Genlock extension, the system has your image acquisition requirements under control and in time. The Partyline Intercom channels and eight mic-pre inputs have your talent on-air loud and clear while the two isolated 1GbE LAN extensions let you get your IP connectivity extended over the same two Single-Mode fibers.

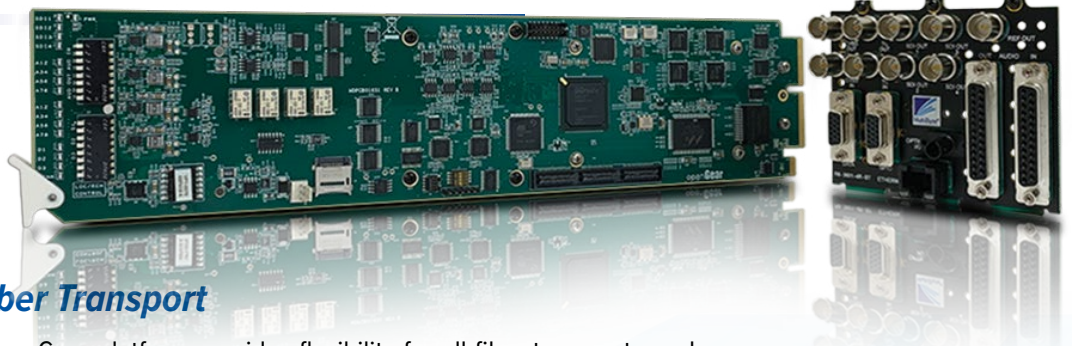
HoneyBadger Remote unit is a 5RU rack mountable chassis with dual, redundant 48VDC power supplies and a battery plate for short term emergency back up power. Fiber connector options include dual ST, Neutrik opticalCON DUO and LEMO 304M SMPTE standard connectors. The HoneyBadger Local side unit is a compact 4RU that provides the same industry standard connectivity as the remote side with full size BNCs for video, XLRs for Audio and easy to terminate Phoenix connectors for the Serial Data and GPIOs. The HoneyBadger is also available with 12G-SDI I/O to support 4K production.



For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)



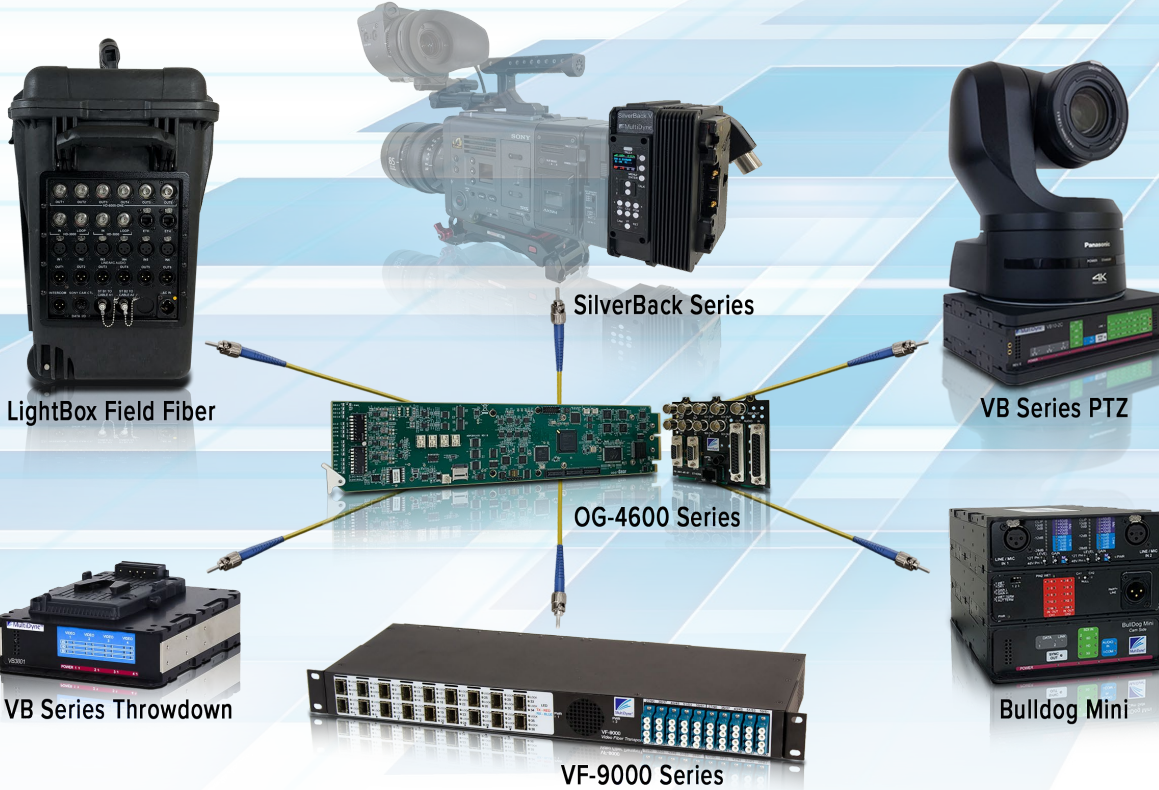
# OG-4600 Series



## 12Gbps Video, Audio, Data Fiber Transport

The OG-4600 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 12G SDI, audio, data, Ethernet, and reference, all compatible with the industry-standard openGear platform offering SNMP management via Dashboard software.

### OG-4600 Series Multi-Platform Cross-Compatibility

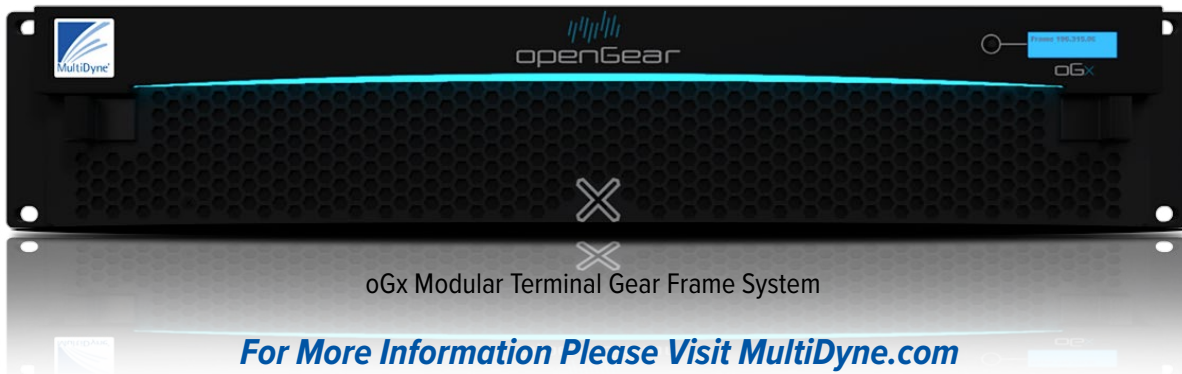


### FEATURES

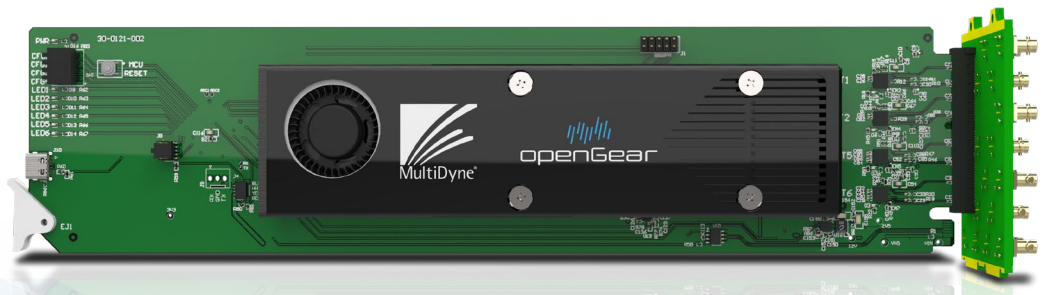
- Up to 4 x 12G SDI
- 8x8 Audio Line/AES
- Genlock
- Time Code, GPIO, Data
- Ethernet

### APPLICATIONS

- Studio Links
- Signal Trunking
- Signal Distribution
- Campus Interconnects
- Transmission Links
- Telco Circuits
- Outside Broadcast "B-Unit" Interconnects







## FEATURES

- Built-in Frame Syncs
- In-Band NMOS Control
- ST-2022-7 Failover
- Input Loop & Dual Output
- JPEG-XS Upgradable
- 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

## ST2110-20 Encapsulator / De-encapsulator

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

<p>12G/3G/HD-SDI &gt;&gt;&gt;</p> <p>12G/3G/HD-SDI &gt;&gt;&gt;</p>	 <p><b>MDoG-6061-2x0-4K-10G</b></p>	<p>10GbE &gt;&gt;&gt;&gt;&gt;</p> <p>10GbE &gt;&gt;&gt;&gt;&gt;</p> <p>10GbE &gt;&gt;&gt;&gt;&gt;</p> <p>10GbE &gt;&gt;&gt;&gt;&gt;</p>	 <p>ST 2110 Network</p>
<p>12G/3G/HD-SDI &gt;&gt;&gt;</p> <p>12G/3G/HD-SDI &gt;&gt;&gt;</p>	 <p><b>MDoG-6060-2x0-4K-25G</b></p>	<p>25GbE &gt;&gt;&gt;&gt;&gt;</p> <p>25GbE &gt;&gt;&gt;&gt;&gt;</p> <p>25GbE &gt;&gt;&gt;&gt;&gt;</p> <p>25GbE &gt;&gt;&gt;&gt;&gt;</p>	 <p>ST 2110 Network</p>
<p>3G/HD-SDI &gt;&gt;&gt;</p> <p>3G/HD-SDI &gt;&gt;&gt;</p> <p>3G/HD-SDI &gt;&gt;&gt;</p> <p>3G/HD-SDI &gt;&gt;&gt;</p> <p>3G/HD-SDI &gt;&gt;&gt;</p> <p>3G/HD-SDI &lt;&lt;&lt;</p> <p>3G/HD-SDI &lt;&lt;&lt;</p>	 <p><b>MDoG-6060-6x2-HD-25G</b></p>	<p>25GbE &gt;&gt;&gt;&gt;&gt;</p> <p>25GbE &gt;&gt;&gt;&gt;&gt;</p> <p>25GbE &gt;&gt;&gt;&gt;&gt;</p> <p>25GbE &gt;&gt;&gt;&gt;&gt;</p>	 <p>ST 2110 Network</p>

For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)

# NANOBRIX

## Throwdown Solutions



NB2-12G-HDMI REAR VIEW



NB2-12G-HDMI FRONT VIEW

### NB2-12G-HDMI 12G/6G/3G/HD/SD-SDI to HDMI 2.0 Converter

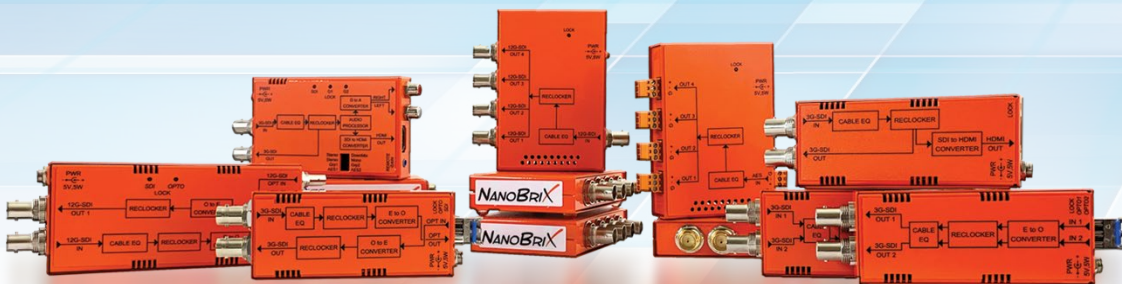
The NanoBrix NB2-12G-HDMI from MultiDyne converts 12G-SDI to HDMI 2.0 signals. This makes it an ideal cost-effective monitoring solution to display professional 12G-SDI signals on LED monitors with HDMI 2.0 inputs. In addition, the unit provides external audio outputs that can be routed to powered speakers. Audio outputs are DIP switch selectable to be either a stereo pair or a L/R multichannel downmix allowing for 5.1 audio to be mixed down to stereo. Providing a comprehensive audio and video monitoring solution in a compact and rugged form factor.

The NB2-12G-HDMI accepts a single link SDI input ranging from SD up to 12G-SDI with a reclocked SDI output to feed downstream equipment.

Optional fiber SFP equipped models are available including the NB2-12G-HDMI-OE-LC receiver, which can receive an SDI signal over distances up to 10KM on a single LC fiber connector. The NB2-12G-HDMI-OO-LC provides both an input and regenerated fiber output on a duplex LC fiber connector. And finally, there is the NB2-12G-HDMI-OE-ST which accepts an SDI signal on a single ST fiber connector.

Power to the unit is provided by an AC adapter with a locking DC power connector. Backup power and firmware updates are possible using the USB-C connector.

### Original NanoBrix Also Available in Stock



### NBX v1.0 Series Includes:

- 3G / 12G Fiber Extenders
- 12G & MADI DAs
- HDMI Converters
- Audio DAs
- Embedders & De-Embedders
- Audio Downmixers

MultiDyne's NanoBrix Series assures the many stages of the signal lifecycle are reliably addressed in one complete family. NanoBrix offers a comprehensive product line of miniature, rugged, quick-connecting throwdown solutions for temporary or permanent applications, including live TV productions, sporting venues, and broadcast facilities.



### New NBX-SHELF-SMP Rack Mount for Original NBX v1.0 Series Units Available Soon



# SilverBullet

## Mini 12G HD/SDI Fiber Optic Link



### For Fixed Links or Last Minute SDI Feeds

#### FEATURES

- Fiber Transport From 5Mbps to 12Gbps
- 16 CWDM Wavelengths Available
- Supports SMPTE 310M, 259M, 344M, 292M, 424M, 2081-1M, 2082-1 & DVB-ASI
- Equalizes 75m @ 12G, 200m @ 3G, of Gepco VSD2001 or Belden 1694A Cable
- Supports Embedded Audio and Data
- Monitor Optical Power Level at RX
- Re-clocking
- Single-mode Fiber Recommended
- ST Optical Connector
- Small, Rugged, Portable
- Stand-Alone or Rack Mounted
- Power Supplies and Convenient Case Included
- International AC Adapters Included
- One Year Warranty

The SilverBullets are an economical solution for transporting multi-rate SDI signals ranging from 5Mbps all the way up to 12Gbps over single mode fiber. At just three inches in length, the SilverBullets are perfect for a wide variety of professional A/V and broadcast applications.

The rugged, diecast powder coated aluminum enclosure supports the popular metallic ST-type optical connector and the SDI video connector is on a standard full size BNC. Power (5-16 VDC) is supplied using an AC Adapter with a locking DC connector that eliminates any possibility of the power cord accidentally becoming unplugged.

Integrated LEDs make troubleshooting easy with DC power and optical laser indications on the transmitter. The receiver has DC power and optical power indicators. Not only can your RX unit receive SDI signals, it can also be used as a confidence optical power meter for ANY digital optical signal.

Auto sensing inputs provide robust cable equalization and reclocking on SDI signals. When ASI is detected the reclocking is turned off to allow for transmission of ASI signals.

Although the SilverBullets are small in size, this does not mean they can't handle long links. With an optical launch power of -3dBm for standard units (0 dBm for CWDM units) and receiver sensitivity to -14dBm @ 12G, and -18dBm @ 3G make fiber runs of 25km or more possible with optical power to spare.

SilverBullet transmitters can also be ordered in any of the 16 available CWDM wavelengths in order to facilitate optical multiplexing. Each pair of SilverBullets comes packaged in a convenient case with 100-240VAC input wall-mount power supplies. For instances when you want to power your units from your camera battery, optional D-TAP, or USB-A, USB-C cable adapters are available.

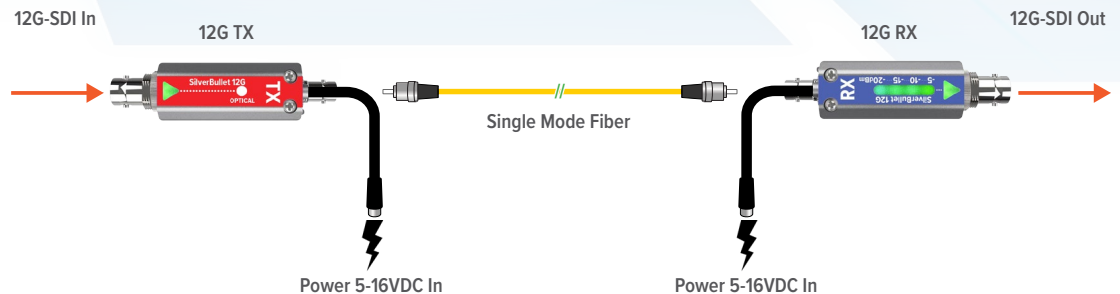
The SilverBullets from MultiDyne.

The next time you need just one more feed ten minutes prior to air, you'll be glad you have them.

#### Application & Usage

#### APPLICATIONS

- Sports Production
- Remote Camera Links
- Distance Learning
- OB Van Inter-Connects
- Pre-Fibered Venues
- Courtesy Feeds



For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)

# FiberSaver Series

3G, 12G, & 25G Configurable  
Digital Fiber Multiplexers &  
Wavelength Shifters



The FiberSaver Series has been designed to help engineers and designers overcome situations where there are many signals to move over fiber, but not enough available fibers due to a lack of access or inability to run more fiber.

3G and 12G systems are available in uni and bi-directional configurations ranging from 6x0 and 18x0 to 3x3 and 9x9. Asymmetrical bi-directional configurations are also available.

Unique to the FiberSaver Series is the option to provide a Coaxial copy of an optical input or output path. This capability can be used on one or both sides of a system for the ultimate in conversion between optical and SDI sources and receive devices.

The coax input can be used to input an auto-failover /keep-alive signal as the system will automatically select the coax input when light is not detected on the input.

When the coax stage is populated on the Rx side of the system the FiberSaver will output simultaneous copies of the incoming optical signal.

Since the FiberSaver is receiving and then re-transmitting the optical signal, you get a fresh optical budget that allows transmission over even longer distances. The Rx side of the system can be an optical only passive de-mux unit or an active receiver with reamplified optical out with or without coax copies.

3G FiberSavers will also work with 1G Ethernet and MADI signals and special order 12G Systems can work 10G Ethernet and SMPTE Camera Chains that operate at 10Gbps.

Custom configurations are available providing the most comprehensive mixed signal, single system solution on the market. Contact MultiDyne to learn what is possible.

FSCu versions have both Fiber and Coaxial connections and FS versions have just Fiber. Both types can be used together to build the ideal system.



**FSCu-12G-T-B-ST 6 Channel Fiber & Copper 12G Tx**



**FS-12G-T-B-ST 6 Channel Fiber Only 12G Tx**

## FEATURES

- Turns Any Digital Optical Signals Into CWDM
- Optical Only Versions & Coaxial Optical Versions Available
- Up To 18 Optical Signals or Up To 18 SDI Video On 1 fiber
- 3G, 12G, & 25G Versions With Optional Support For 1 & 10 GbE
- Per-Channel Front Panel Status Display
- Regenerates/Amplifies Optical Signals
- Optional Redundant Power Supplies
- Auto-Fail Over To Coax Input
- Easy Access to Installed Fiber Infrastructures
- Extends Useful Life of Legacy Fiber Equipment
- Faster Set and Strike With Fewer Cables

## MARKETS & APPLICATIONS

- Rentals
- OB Production
- Sports Broadcasting
- Remote Studios
- Corporate A/V
- Reclaiming Existing Fiber & Gear
- Use With SMPTE-HUTs to Extend Up To 9 SMPTE Camera Chains Over 1 Fiber
- Take Advantage of Stadium and Campus Fiber
- Replaces Need For Wavelength Specific Spares In CWDM Apps

**Custom Tailor a FiberSaver Solution for Your Application with Our Configurator Tool Available Here at <https://configurator.multidyne.com/launcher>**



# MADI

# CENSUS SERIES Audio Monitors



## Rack Mount Audio & Video Monitors

### C16A-2DANTE FEATURES

- 3G / HD / SD SDI Input With Integrated 16 Channel De-embedder
- Monitoring of up to 16 Channels of DANTE IP Audio Input
- Reclocked SDI Output
- High Power Class D Stereo Audio Amplifier
- Onboard 5.1 Surround Sound Lt/Rt Downmixer
- ITU1770-3 Loudness Level Display, With Full 16 Channel Monitoring Display
- Redundant Power Supply Option
- Headphone & Analog Audio Outputs
- Easy Audio Source and Mode Selection
- Ethernet Connection to DashBoard Control System For Monitoring, Control and Software Upgrades
- 3-year Transferable Warranty

Working with audio is a complex endeavor. There are broadcast compliance challenges, ensuring that audio loudness thresholds are not exceeded. There are the quality control essentials that assure broadcast signal integrity. Depending on format, the number of signals to monitor and maintain range from very low to high density.

MultiDyne acquired Census Digital in 2020 to problem-solve these broadcast and production audio challenges. MultiDyne's rackmounted CENSUS Series provide reliable confidence monitoring for studios, mobile production and broadcast operations. Each addresses signal density needs for SDI, analog, AES / EBU, MADI or Dante IP audio, and simplifies how engineers visually and aurally monitor individual audio channels, adjust loudness levels and downmix channels.

A consistent front panel design and intuitive UI assures a familiar user experience across all models while extracting audio information, setting key parameters and maintaining quality control.

### C64A-1 MADI FEATURES

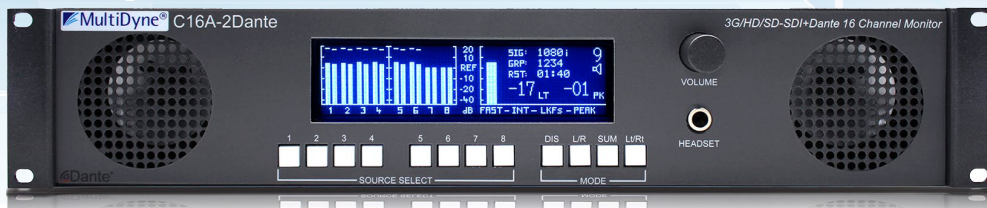
- Monitoring of up to 64 Channels of MADI Audio
- Reclocked MADI Output
- High Power Class D Stereo Audio Amplifier
- Level Display, with Full 64 Channel Monitoring Display
- Redundant Power Supply Option
- Headphone & Analog Audio Outputs
- Easy Audio Source and Mode Selection
- Ethernet Connection to Dashboard Control System For Monitoring, Control and Software Upgrades
- 3-year Transferable Warranty

### APPLICATIONS

- Broadcast
- Mobile Production Trucks
- Master Control/CER
- Confidence Monitoring

### APPLICATIONS

- Broadcast
- Mobile Production Trucks
- Master Control/CER
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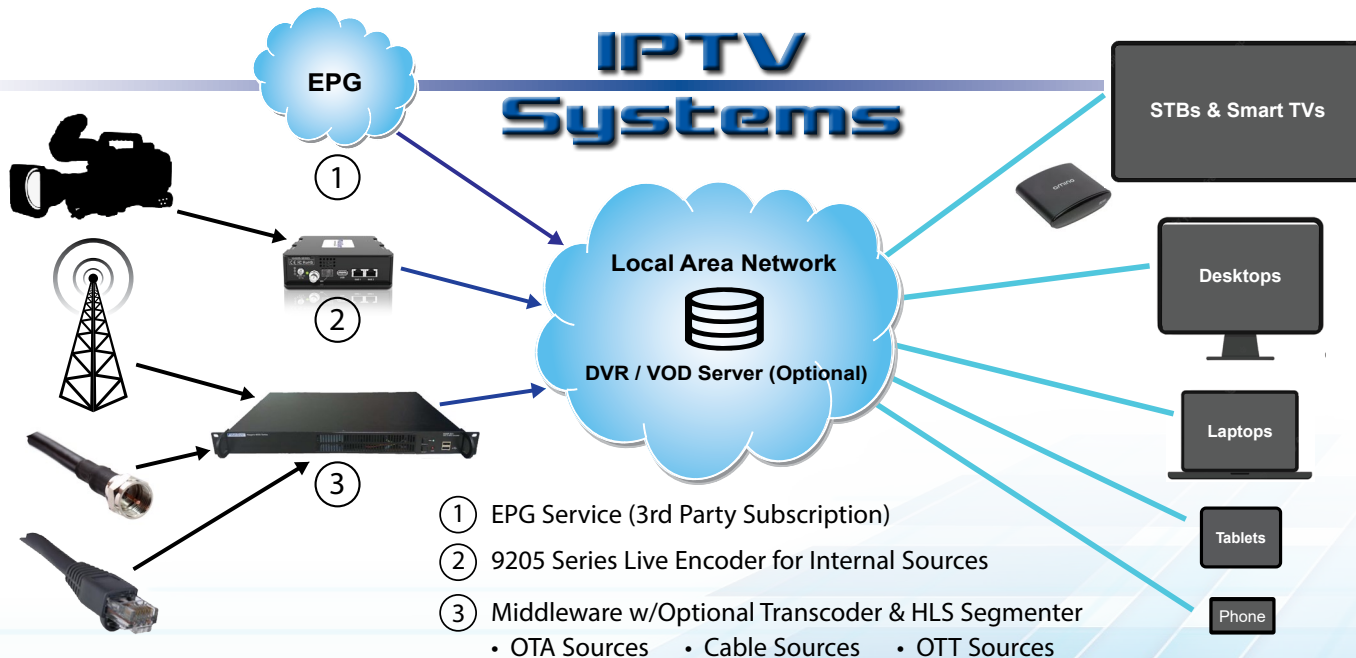
C16A-2Dante & 3G/HD/SD-SDI 16 Channel  
Embedded Audio Monitoring System



C64A-1 64 Channel MADI Audio Monitor

For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)

# IPTV Systems



- ① EPG Service (3rd Party Subscription)
- ② 9205 Series Live Encoder for Internal Sources
- ③ Middleware w/Optional Transcoder & HLS Segmenter
  - OTA Sources
  - Cable Sources
  - OTT Sources

## Cost-Effective Streaming Video Solutions

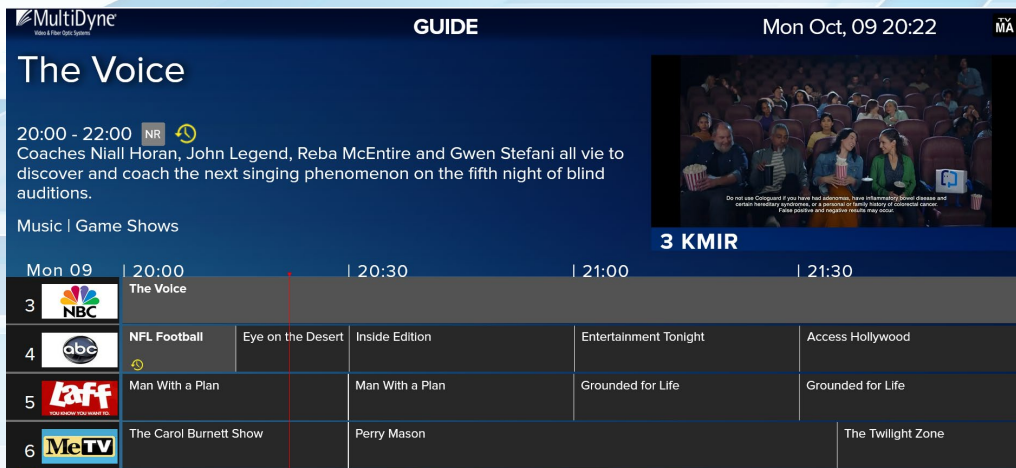
MultiDyne IPTV is a cost-effective solution that easily allows you to manage your live and file-based streams in your network or OTT content. The solution includes; Antenna (OTA) or Cable to IP converters; Niagara encoders and transcoders, Niagara IPTV management server, Android STBs apk, players for PCs, mobile devices or BYOD devices ( Amazon Fire, etc.)

### FEATURES

- Low Cost
- Apps for Many Types of Devices; Computers, Set Top Boxes, Mobile Devices
- Easy to Manage Back End
- Integrated HLS Segmenter and Transcoder
- Web Interface Management

### APPLICATIONS

- Broadcasters
- Houses of Worship
- Corporations
- Government
- Executive Viewing



ID	logo	Name	Call Sign	Type	Source	UDP IP	UDP Port	Unicast URL	Station ID	Adult	Enc	Active
2	Alberta	Travel Alberta	Alberta	video	unicast			http://47.181.16.92:8083/Alberta/index.m3u8		N	N	Yes
3	CBS	CBS	KESQ	video	unicast			http://47.181.16.92:8083/CBS/index.m3u8	cbs2kpspus	N	N	Yes
4	NETFLIX	Netflix Ad	Netflix Ad	video	unicast			http://appgatecr.com/video/mp4/Netflix-original-series.mp4	2533	N	N	Yes
7	Laff	LAFF Low	LAFF	video	unicast			http://47.181.16.92:8083/LAFF/index.m3u8	lafftvus	N	N	Yes
8	MeTV	MeTV	MeTV	video	unicast			http://47.181.16.92:8083/MeTV/index.m3u8	metvius	N	N	Yes
9	NBC	NBC	KMIR	video	unicast			http://47.181.16.92:8083/NBC/index.m3u8	nbc6kmirus	N	N	Yes

### Management Interface

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# RF Over Fiber Solutions



## L-Band & CATV RF Fiber Transport

### CTV-2000

#### CATV Optical Transmission

CTV-2000 series 1310nm transmitter is primarily used for CATV, 110 channel video signal, digital TV signal, telephone voice signal and data signal, long-distance fiber transmission. The transmitter utilizes a high linearity DFB laser, RF power digital automatic process technique, along with RF pre-distortion circuit. The built-in microprocessor monitors the transmitters working status and automatically ensures optimum performance. All materials used in CTV-2000 optical transmitter meet RoHS requirement.

The CTV-2000 series CTV-2000-FRX Optical Receiver is designed for FTTH broadband analog or digital CATV services. Working at extremely low optical input power, CTV-2000-FTX still generates excellent CATV signals.

### CTV-2000FTX/RX FEATURES

- Low Noise High Linearity Ortel-Emcure Cooled DFB Laser
- GaAs Technology Up To 1000MHz (typical 862MHz)
- RF Power Digital Automatic Process Technology Control the Laser Driving RF Power Level Automatically, According to RF Signal Level and Channels, Ensuring the Best C/N, CTB and CSO
- Excellent Pre-distortion Technology Improves CTB, CSO and C/N
- Built-in Microprocessor Accurately Monitor Laser Output Power and Temperature.
- Front Panel VFD Displays the Status Parameters and Function Message
- 19" 1RU Standard Rack With RS485 and RS232 Ports For Remote Monitor and Control
- SNMP Network Management Optional
- RoHS Compliant

### SATLINK-MINI FEATURES

- Compact aluminum die cast housing
- 950MHz to 2150MHz L-Band RF input from LNB
- 13V or 18V @Maxim 450mA LNB powering selectable
- 1310nm uncooled DFB Laser
- High Linearity Photodiode
- Low noise RF Gain Control circuit

### SatLink Mini

#### L-Band over Fiber

SatLink Mini is a modular satellite RF fiber link, transmitting L-Band single RF from LNB over single fiber while powering LNB at either 13V or 18V DC from the RF port. SatLink Mini includes SL-2150-MN-TX-SCA transmitter and SL-2150-MN-RX-SCA receiver. With built-in 1310nm uncooled DFB laser high linearity photodiode and low noise RF gain control circuit, SatLink Mini can deliver high quality satellite RF to a few SL-2150-MN-RX-SCA receivers.



SatLink-Mini RX/TX

For More Information Please Visit [MultiDyne.com](http://MultiDyne.com)

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## **46 Years of Award-Winning INNOVATION**

*MultiDyne Video & Fiber Optic Solutions has over 45 years of experience serving the broadcast and video production communities worldwide. MultiDyne leads the industry in pioneering signal conversion and fiber-optic-based transport systems for the broadcast, cable, satellite, production, digital cinema, surveillance, teleconferencing, and Pro-AV markets across all business verticals.*

*MultiDyne's service-oriented approach helps customers meet their needs with innovative, custom fiber solutions for systems integrators and end-users. The company's highly configurable, durable, format-flexible, and feature-rich solutions service the continually evolving needs of local studios, network facilities, mobile trucks, live event venues, and enterprise organizations. MultiDyne continues to expand on its existing product families with new ultra-compact, lightweight systems; and innovate for new growth areas, including IP-based transport and delivery networks. Ultimately, each innovation delivers tangible benefits in the form of higher operational efficiency, and lower total cost of ownership.*

 **MultiDyne®**  
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