

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 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



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



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

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.

ORDERING INFORMATION

Use the FiberSaver configuration tool to build your solution and get a part number and rear panel elevation:

<https://configurator.multidyne.com/fiber-saver>

Contact sales@multidyne.com for information on special configurations

ACCESSORIES

PS12V-65W-2.5MML	Spare / Redundant 12V 65W Power Supply for FiberSaver Series, 2.5mm Locking Connector
ERPI-2.5MM-3FL-P	External Redundant Power Interface, Dual 2.5mm Female Locking Inputs, Single 2.5mm Female Locking Output, Diode Protected. Includes one 2' Switchcraft Male to Male cable

TECHNICAL SPECIFICATIONS

Coaxial Serial Data Input/Output (3G)

Connector	75-ohm BNC
Bit Rate	125 Mbps – 4.125 Gbps
Cable Auto Equalization	100m Belden 1694A @ 2.97 Gbps 170m Belden 1694A @ 1.485 Gbps 400m Belden 1694A @ 270 Mbps
Standards	SMPTE 424M, 292M, 259M-C DVB-ASI
Return Loss	< 15dB @ 5 MHz – 1.5 GHz < 10dB @ 1.5 GHz – 3.0 GHz
Level	800 mV ±80 mV
Alignment Jitter	< 0.3 UI

Coaxial Serial Data Input/Output (12G)

Connector	75-ohm BNC
Bit Rate	270 Mbps – 11.88 Gbps
Cable Auto Equalization:	60m Belden 1694A @ 11.88 Gbps 65m Belden 1694A @ 6 Gbps 100m Belden 1694A @ 2.97 Gbps 170m Belden 1694A @ 1.485 Gbps 400m Belden 1694A @ 270 Mbps
Standards	SMPTE 2082-1, 2081-1, 424M, 292M, 259M-C DVB-ASI
Return Loss	< 15dB @ 5 MHz – 1.5 GHz < 10dB @ 1.5 GHz – 3.0 GHz < 7dB @ 3.0 GHz – 6.0 GHz < 4dB @ 6.0 GHz – 12.0 GHz
Level	800 mV ±80 mV
Alignment Jitter	< 0.3 UI

Optical Input/Output (3G & 12G)

Fiber type	Singlemode
Connector	LC/UPC ST/UPC SC/UPC
Standard	SMPTE 297M
Input Range	1250 – 1650 nm
Input Upper Sensitivity	-2 dBm
Input Lower Sensitivity	3G -20dBm 12G -14 dBm
Output Range	CWDM mux 1271 – 1611 nm RX Side Output: 1310 nm
Output power	0 – 4 dBm per channel
Maximum Operation Distance	3G 40km 12G 10km

Mechanical

Width/Height	1RU, 19" [482.6mm] x 1.75" [44.45mm]
Depth	7.25" [184.15mm]

Electrical

Voltage	9 – 24 VDC, (12V Power Supply Included)
Power	≤ 60W (configuration dependent)

Environmental

Temperature	0 – 55° C
Humidity	0 – 95% RH, non-condensing