MultiDyne
Video & Fiber Optic Systems

Features

- Turns any digital optical signal into CWDM
- Put 6 optical signals or 6 SDI video on 1 fiber
- Optical signals up to 4.25Gb/sec/input
- Video signals up to 3Gb/sec/input
- Repeats and re-transmits with new optical budget
- Plug and play
- No longer a need for wavelength-specific spares in CWDM apps
- Easy access to installed fiber infrasrtructures
- Extends useful life of legacy fiber equipment
- Small and portable
- Faster set and strike with fewer cables
- SEVEN year warranty

Applications

- Sports Broadcasting
- Shared control rooms
- Remote studios/STL's
- Tele-Medicine
- Distance learning
- Corporate A/V
- Taking advantage of stadium and campus fiber infrastructures

7 Year Warranty

You have a lot of signals but just a few available fibers? Let the Fiber Saver save the day AND the budget.

The FS-6000 was designed and built to help engineers and designers to be able to recover from situations where there are many signals to move over fiber, but not enough available fibers due to a lack of access to run more fiber or full cable trays. With our new Fiber-Saver, input any digital optical signal with a data rate of up to 4.25Gb/sec and it will be received and then re-transmitted at a CWDM wavelength and launched into the CWDM multiplexer. At the other end of the link, the signal is then de-multiplexed and restored. Up to six optical signals can be combined without the complexity of having specific CWDM lasers...and their spares...for each of your optical sources.
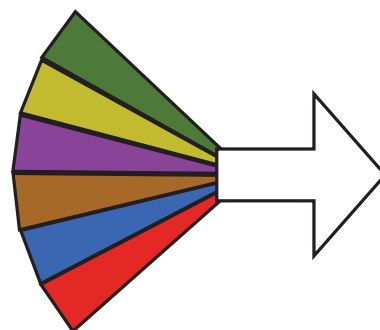
Alternately, you can use the BNC inputs and outputs to transport up to six SDI signals up to full, uncompressed 3Gb/sec, on just one fiber. And the built-in reclockers ensure that your signals arrive in pristine condition.

Since the Fiber-Saver is receiving and then re-transmitting the optical signal, you get a fresh optical budget that allows transmission over even longer distances. And this doesn't work just for MultiDyne equipment. Any optical signal that is digital (even analog signals that are digitally encoded) and less than 4.25Gb/sec can be used. Older multimode systems? Yes! MADI audio signals? Yes!

The FS-6000 can be used as a stand-alone device or mounted three per single RU with our convenient rack mount kits. So whether you are optimizing your fibers within a permanent facility infrastructure or getting the most out of available fibers at a remote venue, we have you covered. With a Fiber-Saver, you are ready for the last minute signal requests that always seem to arise.

The FS-6000. The most economical way to maximize your fiber usage today while providing excess capacity for tomorrow. And backed by our industry-leading 7 year warranty.
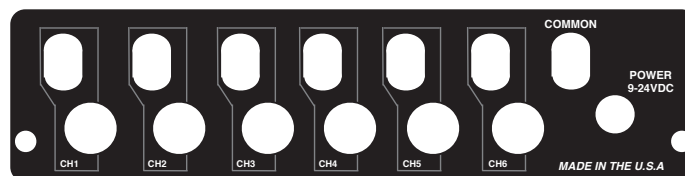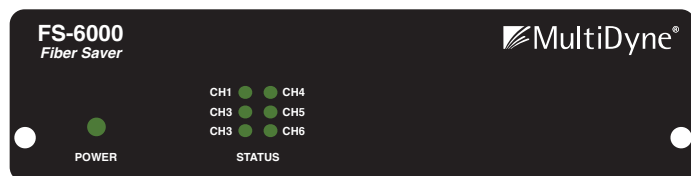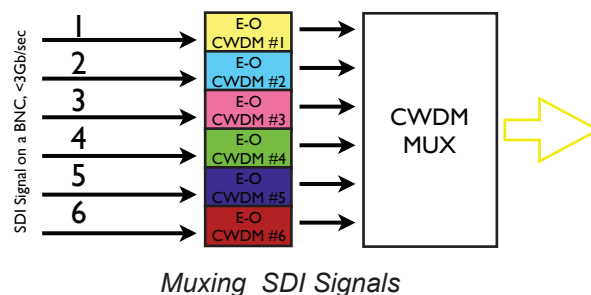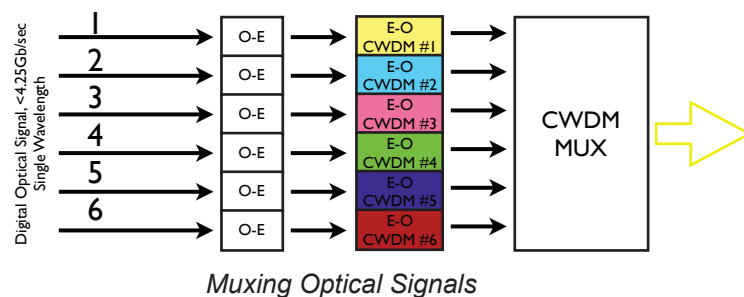
Designed and manufactured in New York.

CWDM allows us to passively combine different wavelengths or "colors" of light without interference or crosstalk

Diagrams

Up to six digital optical signals of any wavelength can be painlessly put onto a single fiber

Muxing Optical Signals

Muxing SDI Signals

FS-6000
Fiber Saver

MultiDyne®

CH1 CH4
CH3 CH5
CH3 CH6

POWER   STATUS

COMMON

POWER
9-24VDC

CH1 CH2 CH3 CH4 CH5 CH6   *MADE IN THE U.S.A*

Specifications

SDI Input/Output

Bit Rates:	19 Mbps to 3Gbps
Connectors:	1 BNC
Impedence	75 Ohms
Signal Level:	800 mV nominal pp
Standard:	SMPTE 425M, 297M, 292M, 259M-C & DVB-ASI
Return Loss:	>15 dB at 5 MHz - 1.485 GHz
	>10 dB at 1.5 GHz to 3 GHz
Jitter(wideband):HD:	< 0.3 UI

Optical Input/Output

Data Rates:	Up to 4.25Gbps
Connectors:	ST,SC
Input Range:	1250 - 1650nm
Input power:	-7 to -15 dBm
Interface:	Digital optical
Output power:	-3 dBm typical
Output Range:	Muxed CWDM freq.

Electrical/Mechanical/Environmental

Dimensions:	6.75" x 5.5" x 1.75"
Weight:	1 lb.
Power:	9-24 VDC, <20 watts
Temperature:	0 to +55C
Humidity:	0 to 95% non-condensing

Ordering Information

Model	Select ST or SC
FS-6000-TX-ST	6 Ch. Fiber Saver Transmitter for up to 6 optical digital signals up to 4.25GB/sec or SDI up to 3gb/sec
FS-6000-RX-ST	6 Ch. Fiber Saver Receiver for up to 6 optical digital signals up to 4.25GB/sec or SDI up to 3gb/sec
FS-6000-DEMUX-ST	6 Ch. FiberSaver Optical Demultiplexer: 1 multiplexed optical input from FS-6000-TX-ST, 6 optical outputs
FS-3x3-TRX-ST	3 x 3 Ch. FiberSaver Transceiver/Remapper, 1 fiber HUT-MUX: Optimized for the SMPTE HUT, 3 inputs & 3 outputs (BNC or optical) over 1 fiber. 2 Required
	4x2 & 2x4 and 1x5 & 5x1 also available. Ask your MultiDyne representative for details
Accessories	
RMT	Rack mount kit, 1 RU for up to three, triple sized modules
BP-T	Rack mount kit, 1
HD-3000-PS	Spare Power Supply for HD-3000, USB-200, FS-6000 & HD-1500 units

Transmit • Route • Receive

www.multidyne.com