

Features

- Turns any digital optical signal into CWDM
- Put upto 18 optical signals or up to 18 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 infrastructures
- Extends useful life of legacy fiber equipment
- Small and portable
- Faster set and strike with fewer cables

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



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

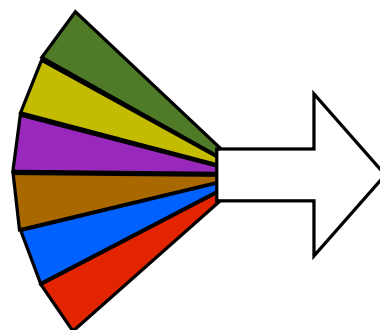
The FS series was designed and built to help engineers and designers to be able to recover from situations where there are many signals to move over fiber, but not enough available fibers due to a lack of access to run more fiber or full cable trays. With our new Fiber-Saver, input any digital optical 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. The FS-12000 and the FS-18000 are a standard 19" 1RU. 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.

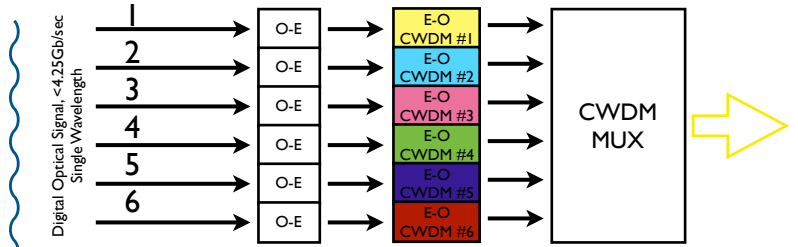
The FS Series. The most economical way to maximize your fiber usage today while providing excess capacity for tomorrow.



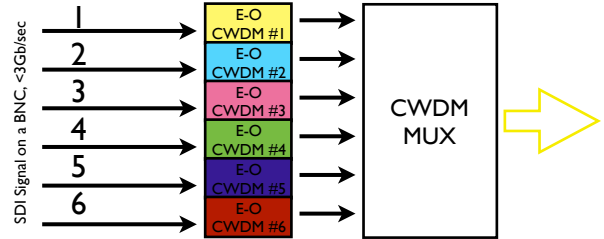
CWDM allows us to passively combine different wavelengths or "colors" of light without interference or crosstalk



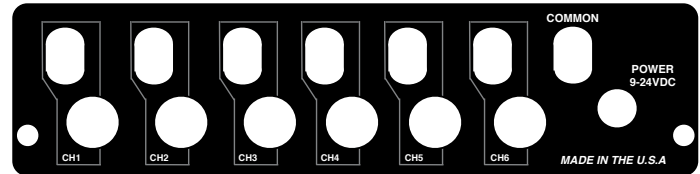
Up to six digital optical signals of any wavelength can be painlessly put onto a single fiber



Muxing Optical Signals



Muxing SDI Signals



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Transmit • Route • Receive
www.multidyne.com



Specifications

SDI Input/Output

Bit Rates: 19 Mbps to 3Gbps
 Connectors: 1 BNC
 Impedance: 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: FS-6000: 6.75" x 5.5" x 1.75"
 Weight: 1 lb.
 Dimensions: FS-12000 & 18000: 19" x 5.5" x 1.75"
 Weight: 3 lb.
 Power: 9-24 VDC, <20 watts
 Temperature: 0 to +55C
 Humidity: 0 to 95% non-condensing

Ordering Information

Model	FS-6000 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

Model	FS-12000 Select ST or SC
FS-12000-TX-ST	12 Ch. Fiber Saver Transmitter for up to 12 optical digital signals up to 4.25GB/sec or SDI up to 3gb/sec
FS-12000-RX-ST	12 Ch. Fiber Saver Receiver for up to 6 optical digital signals up to 4.25GB/sec or SDI up to 3gb/sec
FS-12000-DEMUX-ST	12 Ch. FiberSaver Optical Demultiplexer: 1 multiplexed optical input from FS-6000-TX-ST, 6 optical outputs
FS-6x6-TRX-ST	6 x 6 Ch. FiberSaver Transceiver/Remapper, 1 fiber HUT-MUX: Optimized for the SMPTE HUT, 6 inputs & 6 outputs (BNC or optical) over 1 fiber.
	Ask your MultiDyne representative about other combinations of TX & RX
Accessories	
PS-18000	Spare Power Supply for HD-18000 unit

Model	FS-18000 Select ST or SC
FS-18000-TX-ST	18 Ch. Fiber Saver Transmitter for up to 18 optical digital signals up to 4.25GB/sec or SDI up to 3gb/sec
FS-18000-RX-ST	18 Ch. Fiber Saver Receiver for up to 18 optical digital signals up to 4.25GB/sec or SDI up to 3gb/sec
FS-18000-DEMUX-ST	18 Ch. FiberSaver Optical Demultiplexer: 1 multiplexed optical input from FS-6000-TX-ST, 18 optical outputs
FS-9x9-TRX-ST	9 x 9 Ch. FiberSaver Transceiver/Remapper, 1 fiber HUT-MUX: Optimized for the SMPTE HUT, 9 inputs & 9 outputs (BNC or optical) over 1 fiber.
	Ask your MultiDyne representative about other combinations of TX & RX
Accessories	
PS-18000	Spare Power Supply for HD-18000 unit



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