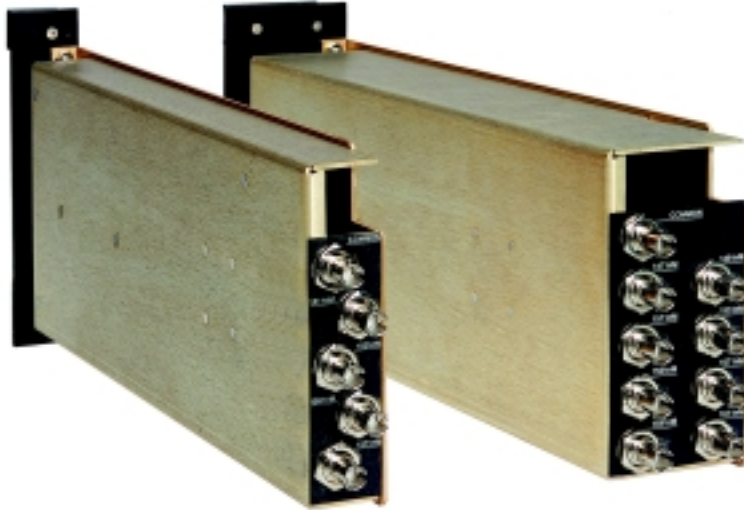


Coarse Wavelength-Division Multiplexing for the Viper II

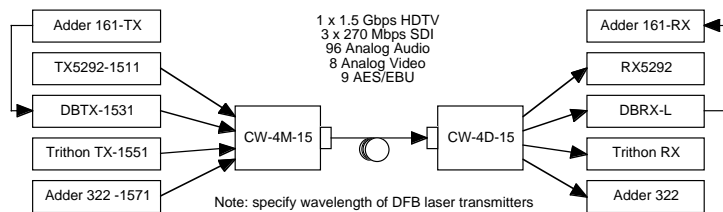


Multiplies your fiber capacity by up to 8x

Telecast's CW-series of optical multiplexers enable you to transmit incredible amounts of information on a single optical fiber. Using a robust form of optical multiplexing known as coarse wavelength-division multiplexing, or CWDM, we now are able to send up to eight independent laser signals on one fiber.

Intuitive and Flexible

The CW mux/demux set is available as rack mount modules to fit our Viper II 16-slot frame. Telecast's CW- modules come in 4-channel and 8-channel versions. Use the multiplexer module at the transmit end, and the demultiplexer at the receive end. For bi-directional transmission, use the demultiplexer module at both ends.



Imagine: One wavelength carries HD/SDI at an uncompressed bandwidth of 1.5 Gbps. Another wavelength carries up to 64 audio channels plus intercoms and data. A third carries 8 monitor video channels, plus 8 stereo audios. A fourth carries three SDI videos, nine digital AES/EBU audios, and several more analog audios. And this is just the 4-channel example!

Features

- Increases fiber efficiency
- Robust and stable multiplexing
- 4-Channel or 8-Channel
- Electrically passive
- For digital and analog applications
- Mix and match Telecast products
- One-way or bi-directional transmission

Applications

- Wherever fiber is at a premium

Compatible Products

- Products using CWDM require upgrade to DFB laser. Specify wavelength on Transmitter end only.
- Viper II™ Module Sets
5122, 5259, 5292, 5060
- Adder™ Audio/Intercom/Data Multiplexers
- Cobra™ Triaxial to Fiber Interfaces
- CopperHead™ ENG/SNG Camera Links
Digital and Analog CopperHeads
- Python™ HD/SDI Transport System
- Trithon™ Digital Video & Audio Mux

Ordering Information

CW-4M-15	4-Channel Mux, 1550 nm
CW-4D-15	4-Channel Demux, 1550 nm
CW-8M-15	8-Channel Mux, 1550 nm
CW-8D-15	8-Channel Demux, 1550 nm

Mechanical/Environmental

Dimensions	
4-Channel	1 Slot in Viper II Frame
8-Channel	2 Slots in Viper II Frame
Optical Connectors	ST
Operating Temperature	0 to 70°C
Storage Temperature	-40 to 85°C
Insertion Loss Temp. Sensitivity	≤ 0.005 dB/°C
Wavelength Temp. Sensitivity	≤ 0.005 nm/°C

Electro-Optical

Center Wavelengths	
CW-4D-15	1511, 1531, 1551 & 1571 nm
CW-8D-15	1471, 1491, 1511, 1531, 1551, 1571, 1591 & 1611 nm
Channel Spacing	20 nanometers
Channel Passband	$\lambda_c \pm 6.5$ nm
Passband Ripple	≤ 0.5 dB
Insertion Loss	≤ 4.5 dB

Return Loss	≥ 45 dB
Isolation (adjacent channel)	
Multiplexer	≥ 15 dB
Demultiplexer	≥ 25 dB
Isolation (non-adjacent channel)	
Multiplexer	≥ 20dB
Demultiplexer	≥ 30dB
Directivity	≥ 55 dB
Uniformity	≤ 1.0 dB