WDM/2 Series

Protocol-Independent Wavelength Division Multiplexing for High Volume Optical Networking Applications

With WDM/2 products, service providers and enterprise network managers can easily double fiber capacity and integrate multiple protocols.

MEDIA CONVERSION

Features and Benefits

Leverages Investment on Existing Fiber Infrastructure
- WDM/2 and iMcV-WDM/2 double the capacity of installed fiber by transmitting two wavelengths on one strand of fiber

Supports multiple protocols
- WDM/2 and iMcV-WDM/2 are speed and protocol-independent, and support 1310 nm and 1550 nm single-mode fiber

Easy to install; no configuration
- Just slide iMcV-WDM/2 into chassis and match the fiber connectors with the 1310 nm and 1550 nm wavelengths
- WDM/2 chassis performs multiplexing with NO outside power requirement
- Requires two slots in a chassis

Maximizes network uptime
- Modular, hot-swappable architecture reduces operational costs associated with product installation, upgrades and maintenance

Wavelength Division Multiplexing (WDM) is a technology that enables the transmitting of multiple, optical signals on different wavelengths over one strand of fiber. Suited for installations where fiber is limited in terms of availability, service providers and enterprise network managers can easily double their fiber capacity without incurring the costs associated with installing new fiber. Campus area network managers can deploy the IMC Networks WDM/2 solution, for example, to combine voice and data traffic over the same duplex fiber between company facilities. Protocol and speed-independent; available in standalone and modular versions

WDM/2 and iMcV-WDM/2 are two-channel, passive, protocol and speed-independent Wavelength Division Multiplexers which allow two individual wavelengths to share one fiber pair; Full-Duplex data travels on 1310 nm and 1550 nm to virtually double the capacity of installed fiber. Deploy WDM/2 products in pairs so that the host site will multiplex 1310 nm and 1550 nm onto the fiber and the remote site will then separate the signals by the wavelength. Available in standalone and modular versions, the protocol-independent WDM/2 products enable the transmitting of any protocol and any speed over 1310 nm or 1550 nm single-mode fiber.

Support a variety of protocols; easy installation
As passive, protocol-independent Wavelength Division Multiplexers, WDM/2 and iMcV-WDM/2 comply with a wide range of communications protocols including Ethernet (10/100/1000 Mbps), SONET/SDH (OC-3, OC-12 OC-48), FDDI, ATM, ESCON, T1/E1, E3, DS3 and FibreChannel. Installing WDM/2 products is easy— standalone WDM/2 chassis come ready to install and iMcV-WDM/2 modules slide into any IMC Networks iMediaChassis or MediaChassis/2.   There is no configuration required for either version.

Application Example

Use WDM/2 products in various networking applications to virtually double the capacity of single-mode fiber. When iMcV-WDM Modules are implemented, for example, four end devices (rather than two) and two separate wavelengths (1310 nm and 1550 nm) can use the same installed fiber.
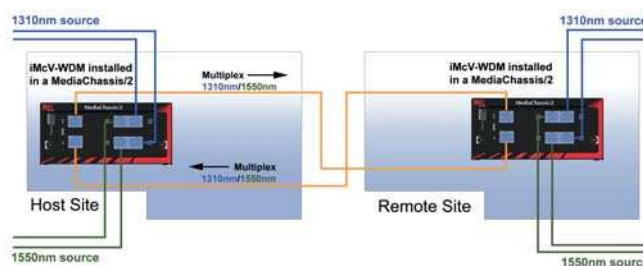
Technical Specifications

- Doubles the capacity of installed fiber by transmitting two wavelengths on one strand of fiber
- Speed-independent
- Protocol-independent; complies with a wide range of communications protocols including Ethernet (10/100/1000 Mbps), SONET/SDH (OC-3, OC-12 OC-48), FDDI, ATM, ESCON, T1/E1, E3, DS3 and FibreChannel
- Supports GUI-Based iView[2]
- Connectors: SC
- Supports Half- and Full-Duplex operation

iMcV-WDM/2
- Requires two slots in a chassis; modules are double-wide
- Installs in any iMediaChassis or MediaChassis/2

Shipping Weight:
0.9 lbs   (0.34 kg)

WDM/2 Standalone Chassis
- iMcV-WDM/2 module ships from factory in a standalone chassis

Shipping Weight:
1.1 lbs. (0.50 kg)

For iMcV-WDM/2 and WDM/2:

Regulatory Approvals:
- FCC Class A
- UL/cUL
- CSA
- CE

Operating Temperature:
32° to 122°F (0° to +50°C); 5% to 90% (non condensing), 0 – 10,000 ft. altitude

Storage Temperature:
-13° to +158°F (-25° to +70°C); 5 to 90% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART NUMBER	DESCRIPTION
WDM/2 Standalone Chassis *	
849-10100	WDM/2-SM1310-SC (standalone chassis; no power required)
iMcV-WDM/2 Module *	
49-14100	iMcV-WDM/2-SM1310-SC

Note: For ordering information and technical specifications on the *iMediaChassis Series* go to: www.imcnetworks.com/products/mmc.cfm

* These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product. For more information go to: www.imcnetworks.com/products/SSFX.cfm

RoHS   Made in USA   6-YEAR Comprehensive Warranty   ISO 9001:2000 REGISTERED