



Making Your Network Better

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.

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

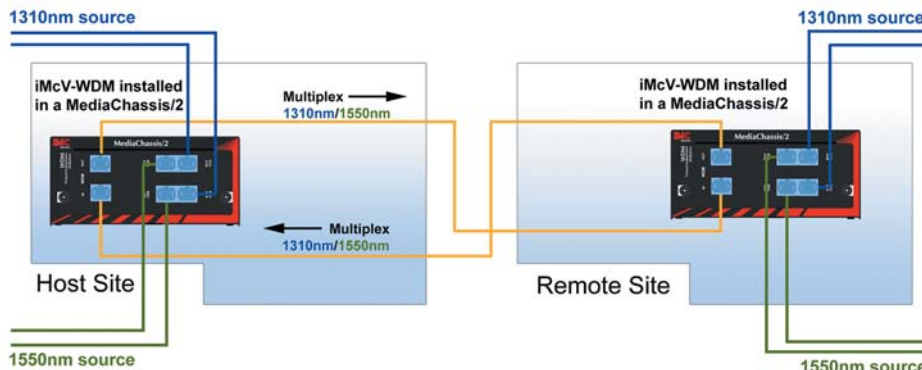
WDM/2 and iMcV-WDM/2 are two-channel, passive, protocol and speed-independent Wavelength Division Multiplexers which allow two individual wavelengths to share one fiber pair; Full-Duplex data travels on 1310 nm and 1550 nm to virtually double the capacity of installed fiber. Deploy WDM/2 products in 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.



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

Maximizes network uptime

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



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

- 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

- iMcV-WDM/2 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)

Ordering Information

| | |
|-----------------|--|
| 49-10100 | WDM/2-SM1310-SC (standalone chassis; no power required) |
| 49-14100 | iMcV-WDM/2-SM1310-SC |

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

Related Products — iMcV Series Modules

The *iMcV Series* includes 10 Mbps (*iMcV-PIM*), 100 Mbps (*iMcV-LIM*), autosensing 10/100 Mbps (*iMcV-LIM 10/100*), and Gigabit Ethernet (*iMcV-Gigabit*) copper-to-fiber media conversion modules as well as 10/100 and 10/100/1000 switching media converters (*MediaLinX* series). T1/E1/J1 media converters (*iMcV-T1/E1/J1*), DS3/E3 media converters (*iMcV-DS3/E3*) and VDSL to Ethernet media converters (*iMcV-VDSL-LANextender*) are also available. In addition, IMC Networks has the most extensive line of protocol-independent (*iMcV-S2MMs*, *iMcV-S2SMs* and *iMcV-M2MMs*) fiber mode conversion modules. The *iMcV* series also includes: *iMcV-FiberLinX*, and *iMcV-WDM* modules. Single-strand fiber versions are available for many media converters.

For more information on the various products in the *iMcV Series*, please refer to the IMC Networks Web site at: <http://www.imcnetworks.com/Products/ProdDir.cfm>

IMC Networks

Headquarters

19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com
www.imcnetworks.com

IMC Networks

Europe

Herseltsesteenweg 268
B-3200 Aarschot | Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks

Eastern US/Latin America

18840 US Hwy. 19 North Suite 400
Clearwater, FL 33764
TEL: 727-524-8152/524-8071 (Latin)
FAX: 727-524-8432
latinsales@imcnetworks.com

IMC Networks

Fiber Consulting Services

For information call:
TEL: 949-465-3000
1-800-624-1070 (US/CAN)
+32-16-550880 (Europe)
fcs@imcnetworks.com

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