WDM

Wavelength Division Multiplexing

- Very high bandwidths up to 100 Gb/s
- Low latency: < 1 msec. per 100 km
- Supports protocols: SDH, Ethernet, Fiber Channel and SDI video
- Encryption enabled
- Connects to your datacenter network and hardware
- Very high availability due to fully separated routes

Your organization is increasingly dependent on data and applications. You can guarantee the essential accessibility, availability and security of mission-critical information and systems by mirroring your IT environments or physically locating them in one or more datacenters. Eurofiber's WDM service provides you with the high-quality connectivity you need to connect your internal and external IT environments.

Our WDM (Wavelength Division Multiplexing) services enable you to link your datacenters, large office environments or Internet/Cloud Exchanges. These connections have very high bandwidths, low latency and support multiple protocols, making WDM ideal for enabling access to your IT environments with real-time data and server replication or for distributed IT environments (Cloud).

Two types of WDM

You can choose from two WDM service types:

WDM via the national WDM network – mainly connections with a single protocol, such as Ethernet 1, 10 or 100 Gb/s. This enables you to cover long distances where amplification is normally required.

Customer-specific WDM – provides you with a custom solution based on your requirements in terms of application(s), latency, separated routes, management and possibilities for future expansion. This solution includes a dedicated fiber-optic connection, tailored WDM equipment and management of the connection.

Speeds and protocols

The combination of WDM technology and our fiber-optic network guarantees you a high-capacity infrastructure. The capacity of our WDM network is currently 400 Gb/s, and is expandable to 1.6 Tb/s. If you only need a 1 Gb/s, 10 Gb/s or 100 Gb/s connection, over two fully geographically separated routes, for example, then this capacity can be provided straight away. The unlimited bandwidths available in our WDM

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network ensure you have sufficient data transport capacity for the most demanding applications, now and in the future.

You can deploy a WDM connection for handling any data communication protocol, including Ethernet, Fiber Channel, SDH and uncompressed video, for example. With each service using its own independent light path, WDM is extremely secure. The connection is individually configured to your specifications and is not shared with any other customers.

Bandwidth and services						
	Gb/s	Gb/s	Gb/s	Gb/s	Gb/s	Gb/s
Ethernet	1	10	100			
Fiber channel	1	2	4	8	10	16
Transparent	1	2,5	10	100		

Minimum delay in data transfer

A further advantage of a WDM connection is that the data transfer delay is determined solely by the journey time of the light pulse through the fiber. Since we create a separate circuit for each application, there are no switches or buffers to delay a data packet unnecessarily. This makes WDM connections the ideal solution for your real-time or time-critical applications, such as storage of high-quality data or transmission of video.

Long-distance transmission

A WDM connection also frees you from any concerns about transmitting signals over long distances. We do this for you. We guarantee the quality of the signal and correct any errors that may occur during data transfer. You avoid high capital and ongoing management costs, since you do not need to make any investments in necessary equipment, organization or co-location. What's more, you only pay for the bandwidth you use and not for the distance covered.

Service Level

The availability of WDM depends on our underlying fiber-optic network and is at least 99.9%. Additionally, you can rely on 24x7 support from our expert Customer Operations Support department.

Contact

For further information about WDM, please contact our sales department at +31 (0)30 242 87 00 or via info@eurofiber.com.

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