

# Technical specifications

## WDM (Encrypted)

### WDM Private Connection

WDM Private Connection characteristics	
Connection options	Single Dual Homed
Ethernet Bandwidth (Gb/s)	10, 40 <sup>1</sup> , 100 <sup>2</sup>
Fiber Channel Bandwidth (Gb/s)	1, 2, 4, 8, 16 <sup>1</sup> , 32 <sup>1</sup>
SONET/SDH Bandwidth (Gb/s)	10
Latency per kilometer fiber-optic route	5 µsec
Standard interfaces	
Ethernet (10Gb/s)	10GBASE-SR (300m, MM OM3 or better) 10GBASE-LR (10km, SM)
Ethernet (40Gb/s)	40GBASE-LR (10km, SM)
Ethernet (100Gb/s) <sup>1</sup>	100GBASE-LR4 (10km) 100GBASE-LR4 (80km)
Fiber Channel	FC1, FC2, FC4, FC8, FC16 <sup>1</sup> , FC32 <sup>1</sup> (100m) MM <sup>2</sup> FC1, FC2, FC4, FC8, FC32 <sup>1</sup> (10km) SM
SONET/SDH	OC-192/STM-64 SR-1 (10km) OC-192/STM-64 IR-2 (40km)
OTN	OTU-2, OTU-2e SR-1 (10km) OTU-2, OTU-2e IR-2 (40km) OTU-4 (10km) <sup>2</sup>

### WDM Private Network

WDM Private Network characteristics	
Connection options	Single Dual via geographically separated routes
Ethernet Bandwidth (Gb/s)	1, 10, 40 <sup>2</sup> , 100
Fiber Channel Bandwidth (Gb/s)	1, 2, 4, 8, 16
SONET/SDH Bandwidth (Gb/s)	10
OTN framing types	OTU-2, OTU-2e
CPE management	At one of the customer locations
Latency per kilometer fiber-optic route	5 µsec
Compatible with Fiber Channel switches of the following providers	HP, Brocade, IBM, Cisco, Netapp
Standard interfaces	
Ethernet (1Gb/s)	1000Base-SX (500m) MMF (OM3 or better) 1000Base-LX (10km) SMF
Ethernet (10Gb/s)	10GBase-SR (300m) MMF (OM3 or better) 10GBase-LR (10km) SMF
Ethernet 40Gb/s	40GBase-LR4 (10km) MPO
Ethernet 100Gb/s	100GBase-LR4 (10km) SMF
Fiber Channel	FC1, FC2, FC4, FC8, FC16, FC32 (100m) MMF <sup>3</sup> FC1, FC2, FC4, FC8, FC32 (10km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10 km) SMF
OTN	OTU-2, OTU-2e SR-1 (10km) SMF OTU-2, OTU-2e IR-2 (40km) SMF OTU-4 (10km)

# Technical specifications

## WDM (Encrypted)

### WDM Encrypted Private Connection

WDM Encrypted Private Connection characteristics	
Connection options	Single Dual Homed
Bandwidth Ethernet (Gb/s)	10
Latency per kilometer fiber-optic route	5 µsec
Standard interfaces	
Ethernet 10 Gb/s	10GBASE-LR (10km)

### WDM Encrypted Private Network

WDM Encrypted Private Network characteristics	
Connection options	Single Dual via geographically separated routes
Bandwidth Ethernet (Gb/s)	10, 40 <sup>1</sup> , 100
Bandwidth Fiber Channel (Gb/s)	4, 8
Bandwidth SONET/SDH (Gb/s)	10
Management CPE	On all customer locations
Latency per kilometer fiber-optic route	5 µsec
Latency per node	5.2 µsec
Compatible with Fiber Channel switches from these suppliers	HP, Brocade, IBM, Cisco, Netapp
Standard interfaces	
Ethernet (10Gb/s)	10GBase-SR (300m) MM (OM3 or better) 10GBase-LR (10km) SM
Ethernet 40Gb/s	40GBase-LR4 (10km) SM
Ethernet 100Gb/s	100GBase-LR4 (10km) SM
Fiber Channel	FC4, FC8 (100m) MM <sup>5</sup> FC4, FC8 (10km) SM
SONET/SDH	OC-192/STM-64 SR-1 (10km) SM

<sup>1</sup> 40 Gb/s, FC16, FC32 on request

<sup>2</sup> 100G will be geographically rolled out between 2020 and 2023

<sup>3</sup> Eurofiber advises against Multi Mode interfaces for Fiber Channel bandwidths of 4Gb/s and higher Ethernet 40 Gb/s, Fiber Channel 16 and Fiber Channel 32 on request

<sup>4</sup> Eurofiber advises against Multi Mode interfaces for Fiber Channel bandwidths of 4Gb/s and higher Ethernet 40 Gb/s on request

<sup>5</sup> Eurofiber discommends Multi Mode interfaces for Fiber Channel bandwidths of 4 Gb/s and higher

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