

Technical specifications

WDM (Encrypted)

WDM Private Connection

WDM Private Connection characteristics	
Connection options	Single Dual Homed
Ethernet Bandwidth (Gb/s)	10, 100 ¹
SONET/SDH Bandwidth (Gb/s)	10
Latency per kilometer fiber-optic route	5 µsec
Standard interfaces	
Ethernet (10Gb/s)	10GBASE-LR (10km) SMF 10GBASE-ER (40km) SMF 10GBASE-ZR (80km) SMF
Ethernet (100Gb/s) ¹	100GBASE-LR4 (10km) SMF ³ 100GBASE-ER4 (30km) SMF 100GBASE-ER4L (30km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10km) SMF OC-192/STM-64 IR-2 (40km) SMF OC-192/STM-64 LR-2 (80km) SMF
OTN	OTU-2, OTU-2e SR-1 (10km) SMF OTU-2, OTU-2e IR-2 (40km) SMF OTU-4 (10km) ¹ SMF

WDM Private Network

WDM Private Network characteristics	
Connection options	Single Dual via geographically separated routes
Ethernet Bandwidth (Gb/s)	1, 10, 40 ⁴ , 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 vendors	HP, Brocade, IBM, Cisco, Netapp
Standard interfaces ²	
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 ⁴	40GBASE-LR4 (10 km) SMF ⁴
Ethernet 100Gb/s	100GBASE-LR4 (10km) SMF
Fiber Channel	FC1, FC2, FC4, FC8, FC16 (100m) MMF FC1, FC2, FC4, FC8, FC16 (10km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10km) SMF
OTN	OTU-2, OTU-2e SR-1 (10km) SMF OTU-2, OTU-2e IR-2 (40km) SMF

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 ²	
Ethernet 10 Gb/s	10GBASE-LR (10km) SMF

WDM Encrypted Private Network

WDM Encrypted Private Network characteristics	
Connection options	Single Dual via geographically separated routes
Bandwidth Ethernet (Gb/s)	10, 40 ⁴ , 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
Compatible with Fiber Channel switches of the following vendors	HP, Brocade, IBM, Cisco, Netapp
Standard interfaces ²	
Ethernet 10Gb/s	10GBASE-SR (300m) MMF (OM3 or better) 10GBASE-LR (10km) SMF
Ethernet 40Gb/s ⁴	40GBASE-LR4 (10km) SMF ⁴
Ethernet 100Gb/s	100GBASE-LR4 (10km) SMF
Fiber Channel	FC4, FC8 (100m) MMF FC4, FC8 (10km) SMF
SONET/SDH	OC-192/STM-64 SR-1 (10km) SMF

¹ 100G is rolled out geographically between 2020 and 2023

² Standard interfaces are per default SMF (Single Mode Fiber). MMF (Multimode Fiber) on request (with CPE).

³ With or without CPE

⁴ 40 Gb/s on request

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