

Passive Optical Networks

Type:	xWDM multiplexers family	13.10.2020
		REV: 1.1
		MP
Reference:	XW-, see system ref.	

xWDM/xPON CEx series multiplexers



INTRODUCTION:

xWDM/xPON multiplexers can be applied in expanding of an existing PON network to new services or protocols. xWDM/xPON solutions family consists of devices compliant with the ITU-T G.984.5 recommendation as well as dedicated solutions adapted for the Customer's needs. High quality components ensure very high operation stability of xWDM/xPON multiplexers in the whole spectral range and perfect thermal stability. xWDM/xPON multiplexers are available both in a version without connectors (intended for splicing) and with any connector type.

APPLICATIONS:

WDM systems
FTTH access networks
Cable networks and HFC
Other optical telecommunication networks

FEATURES AND ADVANTAGES:

High thermal stability of parameters. Low insertion and polarization losses. High interchannel isolation. Available with any type of fiber optic connectors. Available non-standard solutions with specialized functionalities.



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Passive Optical Networks TECHNICAL SPECIFICATIONS:

Insertion loss and isolation:

Multiplexer ¹	Protocol/service	Spectral range	Max. insertion loss ²	Isolation	
CEx.1	GPON	1290-1330 nm 1480-1500 nm	0.7 dB	≥ 25 dB	
	XG-PON1	1260-1280 nm 1575-1581 nm	1.2 dB	≥ 25 dB	
	NG-PON2	1524-1544 nm 1596-1625 nm	1.1 dB	≥ 16 dB	
CEx.3	GPON	1290-1330 nm 1480-1500 nm	0.7 dB	≥ 25 dB	
	VIDEO	1550-1560 nm	1.8 dB	≥ 16 dB	
	NG-PON2	1524-1544 nm 1596-1625 nm	2.0 dB	≥ 25 dB	

¹Nomenclature according to ITU-T G.984.5 recommendation

Other parameters:

Parameter	Unit	Value	
PDL	dB	≤0.1	
Directivity	dB	≥55	
RL	dB	≥50	
Max. input power	dBm	23	
Temp. operating range	°C	-10/+70	
Temp. storage range	0C	-40/+85	
Fiber type	-	G.652.D	

ORDERING INFORMATION:

Series	Quality	Fiber type	Optical functionality	Monitoring port	Multiplexer type	Cable type	Pigtail length	Housing	Connector in	Connectors out
XW	G0	1 - G.652D	SMU - Standard Mux	0 - no port	CEx.1	20 - 2.0 mm cable	LL - length in dm	1 - SST 44x28x7 mm	ST	ST
		2 - G657A1	CMU - Compact Mux	1 - monitor 1% standard uni-di	CEx.3	25 - 250 μm fiber	12 - 1.2 m	2 - ABS 100x80x10 mm	SC	SC
		3 - G657A2		2 - monitor 1% standard bi-di		90 - 900 μm tube		3 - ABS 120x80x18 mm	SCA	SCA
		4 - G655		3 - monitor 5% standard uni-di				4 - ABS 140x115x15 mm	FC	FC
				4 - monitor 5% standard bi-di					FCA	FCA
				5 - monitor 5% flat uni-di					LC	LC
				6 - monitor 5% flat bi-di					LCA	LCA
									E20	E20
									E2A	E2A

Example reference: XW-G0-3-SMU-0-CEx.3-20-10-2-SCA-SCA - CEx.3 SMU multiplexer, PREMIUM quality, without power monitoring port, G.657.A2 fiber, 1 m pigtail length, 2.0 mm tube, ABS housing if dimensions 100x80x10 mm, SCA connectors.

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² Additional insertion losses in the case of multiplexers with connectors: +0.4 dB