

WDM1r Multiplexer

The GEZHI Photoncis' WDM1r Multiplexer series is designed for Next Generation Passive Optical Networks (NG-PON solution), a new optical access system that conexists with GPON on the same ODN.

Our high quality components ensure very high operation stability of WDM1r multiplexers in the whole spectral range and perfect thermal stability. GEZHI offers a flexible platform of WDM1r module to fit a specific PON deployment that is most cost-effective to your needs – Depending on your requirements each WDM1r module can be fully complemented with all PON services or with only the services requested. Premium optical components and high-quality connectivity ensure superior performance, the lowest loss, and robust network reliability.

Our WDM1r multiplexers, including GPON, Video, and OTDR, are designed to accommodate NGPON1 and NGPON2 TWDM wavelengths to maximize the density and enhance the speed of optical distribution network.

FEATURES	APPLICATIONS
Low Insertion Loss	WDM systems
High channel isolation	PON SYSTEM
Thin Film Filter Technology	FTTH access networks
Ultra Stable and Highly Reliable	optical telecommunication networks

Wavelength of the WDM1r Multiplexer

Protocol/Service	Wavelength
G-PON Band	1290-1330, 1480-1500nm
XGS-PON Band	1260-1280, 1575-1580nm
RF Video Band	1540-1565nm
OTDR Monitor Band	1625-1670nm
GPON+XGS-PON	1260-1500,1575-1580nm

GEZHI offer a full range of xWDM products and this WDM1r Multiplexers mouldle is compliant with GR-1209-CORE and GR-1221-CORE standard.



Specification

Multiplexer	Protocol/Service	Spectral Range	Max Insertion Loss	Isolation
WDM1r.01	GPON	1290-1330 & 1480-1500nm	0.8dB	≥30dB
	NGA	1260-1280 & 1524-1660nm	0.6dB	≥15dB
WDM1r.02	GPON	1290-1330 & 1480-1500nm	0.8dB	≥30dB
	NGA	1260-1280 & 1524-1660nm	0.8dB	≥30dB
WDM1r.03	GPON	1290-1330 & 1480-1500nm	0.8dB	≥30dB
	XGS-PON	1260~1280, 1575-1580nm	1.1dB	≥30dB
WDM1r.04	GPON+XGS-PON	1260-1500,1575-1580nm	0.8dB	≥30dB
	OTDR	1610-1660nm	1.1dB	≥30dB
WDM1r.05	GPON	1290-1330 & 1480-1500nm	0.8dB	≥30dB
	XGS-PON	1260~1280, 1575-1580nm	1.1dB	≥30dB
	OTDR	1610-1660nm	1.4dB	≥30dB
WDM1r.06	GPON	1290-1330 & 1480-1500nm	0.8dB	≥30dB
	XGS-PON	1260-1280, 1575-1580nm	1.1dB	≥30dB
	RF Video	1540-1565nm	1.4dB	≥30dB
WDM1r.07	GPON	1290-1330 & 1480-1500nm	0.8dB	≥30dB
	XGS-PON	1260-1280, 1575-1580nm	1.1dB	≥30dB
	OTDR	1610-1660nm	1.4dB	≥30dB
	RF Video	1540-1565nm	1.7dB	≥30dB

Note: Customized Specification is available.

The above specifications do not include connector loss.

Other Specification

Parameter	Unit	Value
PDL	dB	≤0.2
PMD	ps	≤0.2
Directivity	dB	≥50
Return Loss	dB	≥50
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-40~+85
Optical Power	mW	300
Fiber Type	/	Corning Ultra Fiber (G657.A1)

Ordering Information

Model	Configuration	Package type	Cable type	Fiber length	Connector
WDM1r.01		A0=ABS box 80x60x12mm			00=none
WDM1r.02		A1=ABS box 100x80x10mm			LP=LC/UPC
WDM1r.03	1=1unit combo	A2=ABS box 120x80x18mm	00=None	00=None	LA=LC/APC
WDM1r.04	2=2unit combo	A3=ABS box 140x115x15mm	09=900um	05=0.5m	SP=SC/UPC
WDM1r.05	3=3unit combo	L1=LGX 129*29*130mm	loose tube	10=1.0m	SA=SC/APC
WDM1r.06	4=4unit combo	L2=LGX insert in 2slot Rack	20=2.0mm	15=1.5m	FP=FC/UPC
WDM1r.07	S=Specify	L4=LGX insert in 4slot Rack	30=3.0mm	S=Specify	FA=FC/APC
S=Specify		R1=19" 1 U Rack			S=Specify
		R2=2slot 19"1U Rack			
		R4=4slot 19"1U Rack			
		S=Specify			