

CoEx Coexistence Element



A WDM module or coexistence element is designed to enable the implementation of gigabit passive optical network (GPON) evolutions to XGS-PON and NG-PON2.

Engineered for scenarios where services are already guaranteed using GPON but the deployment of different FTTH access technologies is desired, including Optical Time Domain Reflectometer (OTDR) signal too.

In other words, CoEx elements enable the convergence of multiple services over a common access network, allowing flexibility while saving on costs.

It's a plug and play solution for quick and easy handling and identification.

Features and Benefits

Device can include one or more WDM elements, depending on type

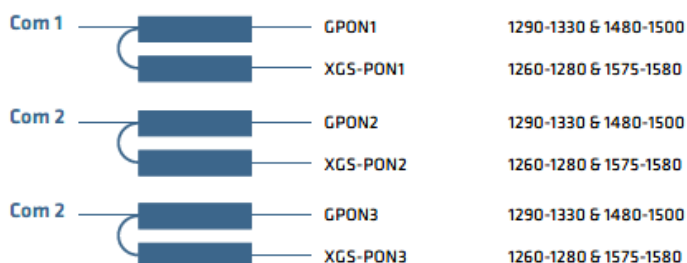
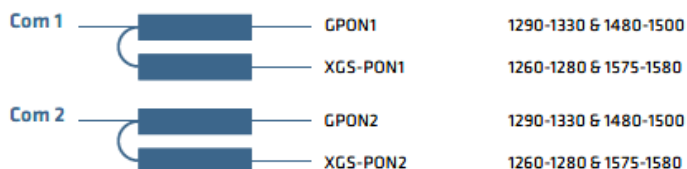
- Allows coexistence between XPON technologies and GPON, XGS-PON and NG-PON2
- OTDR signal also available
- Modules equipped with anti-dust shuttered adaptors and secure laser warning label
- Modules can be supplied in standard LGX box footprint or different and customised form factor

Applications

- FTTx
- Telecommunications
- XPON,GPON,XGS-PON,NG-PON2,OTDR

CoEx Type 1

Allows coexistence of GPON and XGS-PON technologies

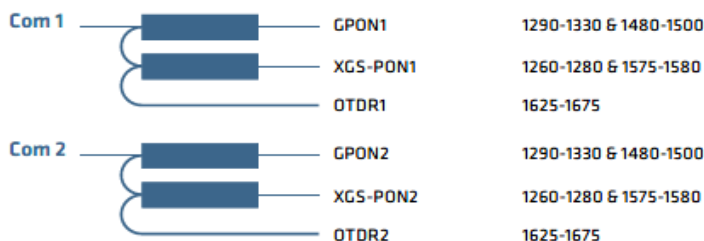


Parameters		
GPON wavelength (nm)		1290-1330 & 1480-1500
XGS-PON wavelength (nm)		1260-1280 & 1575-1580
Fiber type		G652D
IL (dB)	COM-> GPON	≤0.8
	COM-> XGS-PON	≤1.2
Isolation (dB)	COM-> GPON@ XGS-PON	≥30
	COM-> XGS-PON @ GPON	≥30
PDL (dB)		≤0.15
RL (dB)		≥50
Directivity (dB)		≥50
Max optical power (mw)		500
Operating temperature (°C)		-5~75
Storage temperature (°C)		-40~90
Connector type		SC/APC
LGX BOX		180*130*28

Product name	Product description	Part no.
CoEx Type 1	CoExistence of GPON and XGS-PON technologies	XCPSC03185

CoEx Type 2

Allows coexistence of GPON and XGS-PON technologies and OTDR

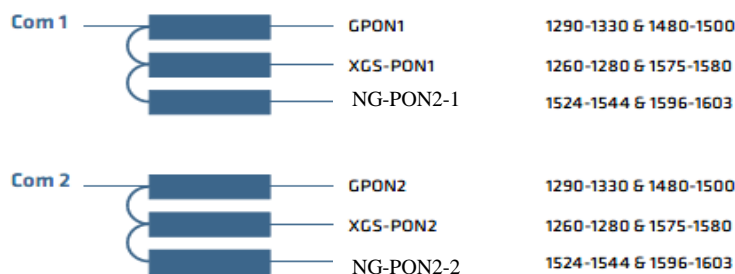


Parameters		
GPON wavelength (nm)		1290-1330 & 1480-1500
XGS-PON wavelength (nm)		1260-1280 & 1575-1580
OTDR (nm)		1625-1675
Fiber type		G652D
IL (dB)	COM-> GPON	≤0.8
	COM-> XGS-PON	≤1.2
	COM-> OTDR	≤1.2
Isolation (dB)	COM-> GPON@ XGS-PON & OTDR	≥30
	COM-> XGS-PON @ GPON & OTDR	≥30
	COM->OTDR @ GPON&XGS-PON	≥15
PDL (dB)		≤0.15
RL (dB)		≥50
Directivity (dB)		≥50
Max optical power (mw)		500
Operating temperature (°C)		-5~75
Storage temperature (°C)		-40~90
Connector type		Com: LC/APC; Others: SC/APC
LGX BOX		180*130*28

Product name	Product description	Part no.
CoEx Type 2	CoExistence of GPON and XGS-PON and OTDR	XCPSC03186

CoEx Type 3

Allows coexistence of GPON -XGS-PON and NG-PON2 technologies

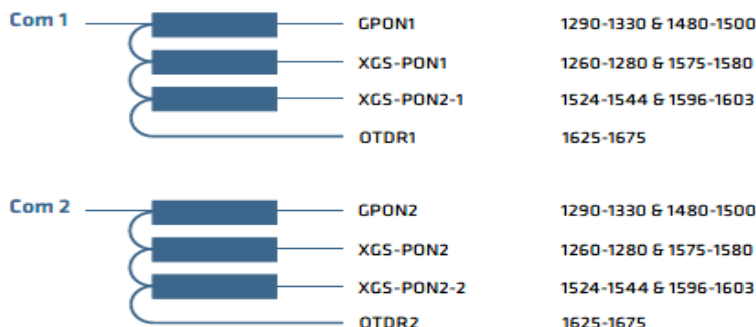


Parameters		
GPON wavelength (nm)		1290-1330 & 1480-1500
XGS-PON wavelength (nm)		1260-1280 & 1575-1580
NG-PON2 (nm)		1524-1544 & 1596-1603
Fiber type		G652D
IL (dB)	COM-> GPON	≤0.8
	COM-> XGS-PON	≤1.2
	COM-> NG-PON2	≤1.4
Isolation (dB)	COM-> GPON @ XGS-PON & NG-PON2	≥30
	COM-> XGS-PON @ GPON & NG-PON2	≥30
	COM-> NG-PON2 @ GPON & XGS-PON	≥30
PDL (dB)		≤0.15
RL (dB)		≥50
Directivity (dB)		≥50
Max optical power (mw)		500
Operating temperature (°C)		-5~75
Storage temperature (°C)		-40~90
Connector type		SC/APC
LGX BOX		180*130*28

Product name	Product description	Part no.
CoEx Type 3	CoExistence of GPON -XGS-PON and NG-PON2	XCPSC02954

CoEx Type 4

Allows coexistence of GPON -XGS-PON and NG-PON2 and OTDR

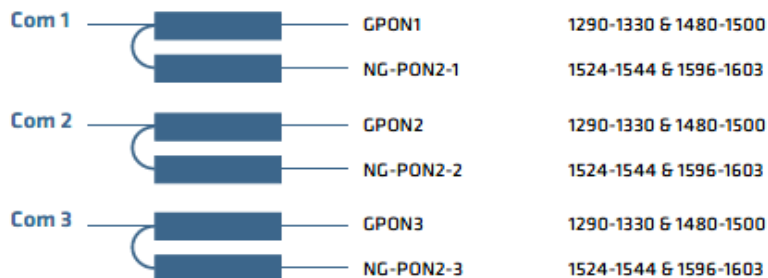


Parameters		
GPON wavelength (nm)		1290-1330 & 1480-1500
XGS-PON wavelength (nm)		1260-1280 & 1575-1580
NG-PON2 (nm)		1524-1544 & 1596-1603
OTDR (nm)		1625-1675
Fiber type		G652D
IL (dB)	COM-> GPON	≤0.8
	COM-> XGS-PON	≤1.2
	COM-> NG-PON2	≤1.4
	COM-> OTDR	≤1.6
Isolation (dB)	COM-> GPON@ XGS-PON & NG-PON2&OTDR	≥30
	COM-> XGS-PON @ GPON& NG-PON2&OTDR	≥30
	COM-> NG-PON2 @ GPON&XGS-PON&OTDR	≥30
	COM-> OTDR @ GPON & XGS-PON& NG-PON2	≥15
	PDL (dB)	≤0.15
RL (dB)		≥50
Directivity (dB)		≥50
Max optical power (mw)		500
Operating temperature (°C)		-5~75
Storage temperature (°C)		-40~90
Connector type		Com: LC/APC: Others: SC/APC
LGX BOX		180*130*28

Product name	Product description	Part no.
CoEx Type 4	CoExistence of GPON -XGS-PON and NG-PON2 and OTDR	XCPSC02955

CoEx Type 5

Allows coexistence of GPON and NG-PON2

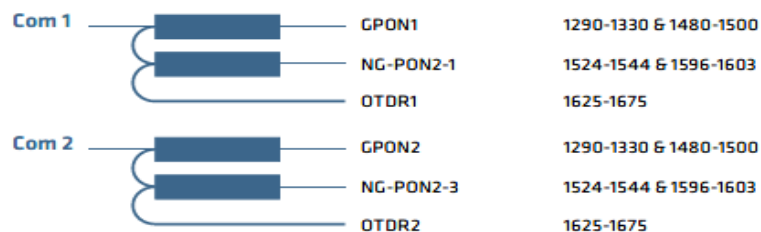


Parameters		
GPON wavelength (nm)		1290-1330 & 1480-1500
NG-PON2 (nm)		1524-1544 & 1596-1603
Fiber type		G652D
IL (dB)	COM-> GPON	≤0.8
	COM-> NG-PON2	≤1.2
Isolation (dB)	COM-> GPON@ NG-PON2	≥30
	COM-> NG-PON2 @ GPON	≥30
PDL (dB)		≤0.15
RL (dB)		≥50
Directivity (dB)		≥50
Max optical power (mw)		500
Operating temperature (°C)		-5~75
Storage temperature (°C)		-40~90
Connector type		SC/APC
LGX BOX		180*130*28

Product name	Product description	Part no.
CoEx Type 5	CoExistence of GPON and NG-PON2	XCPSC03187

CoEx Type 6

Allows coexistence of GPON - NG-PON2 and OTDR



Parameters		
GPON wavelength (nm)		1290-1330 & 1480-1500
NG-PON2 (nm)		1524-1544 & 1596-1603
OTDR (nm)		1625-1675
Fiber type		G652D
IL (dB)	COM-> GPON	≤0.8
	COM-> NG-PON2	≤1.2
	COM-> OTDR	≤1.2
Isolation (dB)	COM-> GPON @ NG-PON2 & OTDR	≥30
	COM-> NG-PON2 @ GPON & OTDR	≥30
	COM-> OTDR @ GPON & NG-PON2	≥15
PDL (dB)		≤0.15
RL (dB)		≥50
Directivity (dB)		≥50
Max optical power (mw)		500
Operating temperature (°C)		-5~75
Storage temperature (°C)		-40~90
Connector type		Com: LC/APC; Others: SC/APC
LGX BOX		180*130*28

Product name	Product description	Part no.
CoEx Type 6	CoExistence of GPON -NG-PON2 and OTDR	XCPSC03188

PART NUMBERS

Product Name	Product Description	Part Number
CoEx Type 1	CoExistence of GPON and XGS-PON technologies	XCPSC03185
CoEx Type 2	CoExistence of GPON and XGS-PON and OTDR	XCPSC03186
CoEx Type 3	CoExistence of GPON –XGS-PON and NG-PON2	XCPSC02954
CoEx Type 4	CoExistence of GPON –XGS-PON and NG-PON2 and OTDR	XCPSC02955
CoEx Type 5	CoExistence of GPON and NG-PON2	XCPSC03187
CoEx Type 6	CoExistence of GPON -NG-PON2 and OTDR	XCPSC03188