

PON MUX of GPON, 10GPON and RFoG Coexistence

This module can accommodate 3 different PONs, GPON, 10GPON and RFoG, in the same network environment. The unit is made into a rack mountable LGX box, 19in chassis or compact metal box with same footprint and option height for mutli-unit in the same package. The module configuration can be single MUX or expanded up to quadruple MUXes.

All AC Photonics' products are Telcordia qualification tested.

PERFORMANCE SPECIFICATIONS

FEATURES

Wide Operating Wavelength Range
Low Insertion Loss
High Channel Isolation
High Stability and Reliability
Extended Operating Temperature is available

APPLICATION

WDM System
FTTX System
Data Center

Parameter		Specifications	
		Downstream	Upstream
GPON	Wavelength Range	1480 ~ 1500nm	1290 ~ 1330nm
	Insertion Loss	≤ 0.70dB	≤ 0.70dB
	Isolation	≥ 30dB	≥ 30dB
10GPON (XG- and XGS-PON)	Wavelength Range	1575 ~1580nm	1260 ~ 1280nm
	Insertion Loss	≤ 0.90dB	≤ 0.90dB
	Isolation	≥ 30dB	≥ 30dB
RFoG	Wavelength Range	1550 ± 10nm	1610 ± 10nm
	Insertion Loss	≤ 0.8dB	≤ 0.8dB
	Isolation	≥ 30dB	≥ 30dB
Passband Ripple		≤ 0.30dB	
Polarization Dependent Loss		≤ 0.10dB	
Polarization Mode Dispersion		≤ 0.10ps	
Directivity		≥ 50dB	
Return Loss		≥ 45dB	
Optical Power		≤ 300mW	
Operating Temperature		0 to +70°C (Extended temperatures are also available upon request)	
Storage Temperature		- 40 to +85°C	
Package Dimensions		S= 89x51x8.0mm case for single F = 96x78x8.0mm for single and duplex G= 96x78x13mm for triplex and quadplex L1= Single LGX (up to 24-Ch with LC)	

All values referenced are without connector.

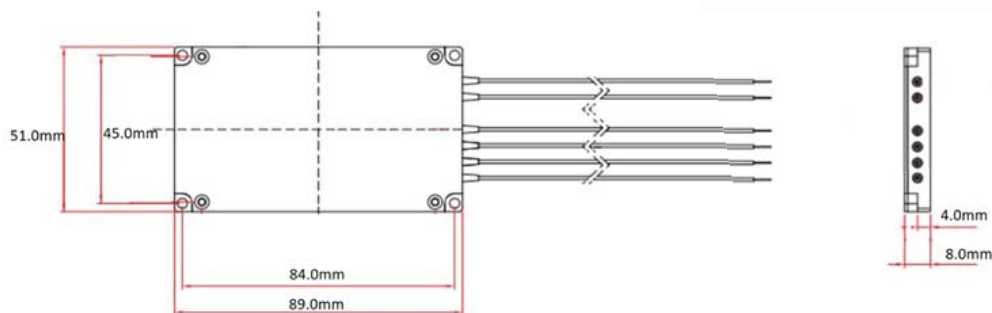
Max. available port numbers for package sizes

Connector	Single wide LGX	Double wide LGX	1U rack
FC	12	24	48
SC	12	24	50
LC	24	48	96

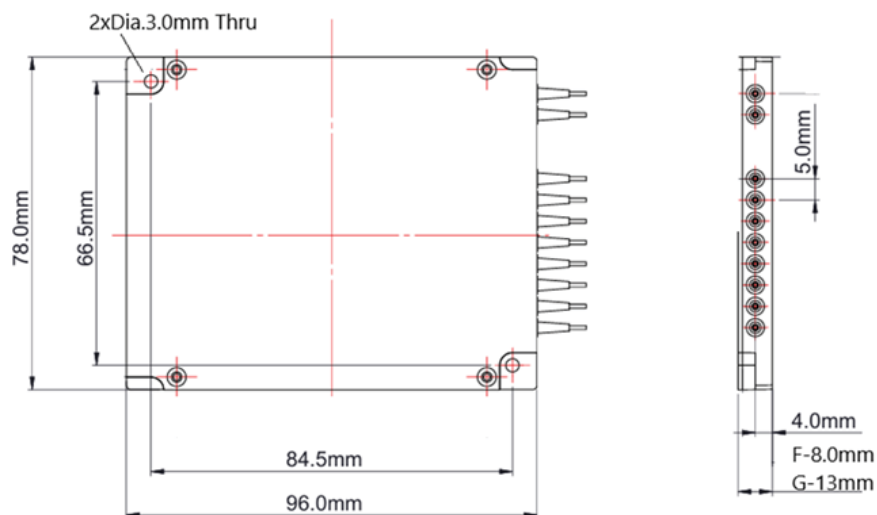
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MECHANICAL DIMENSIONS

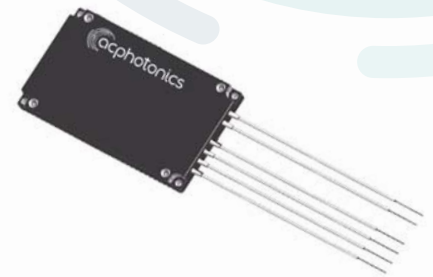
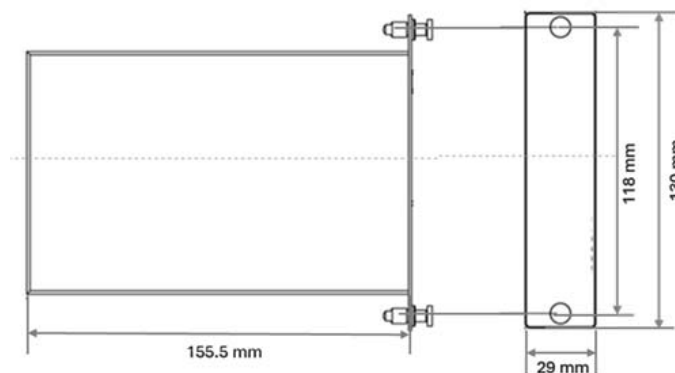
S package



F and G package

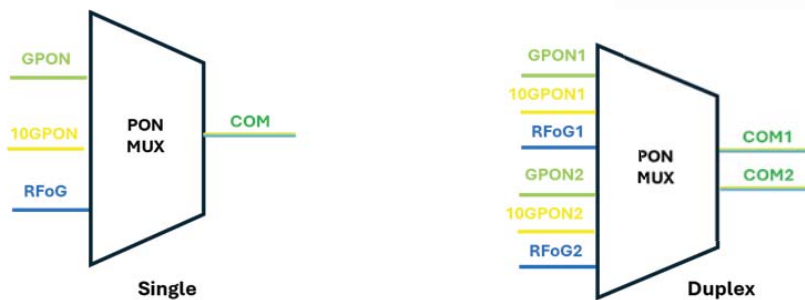


LGX

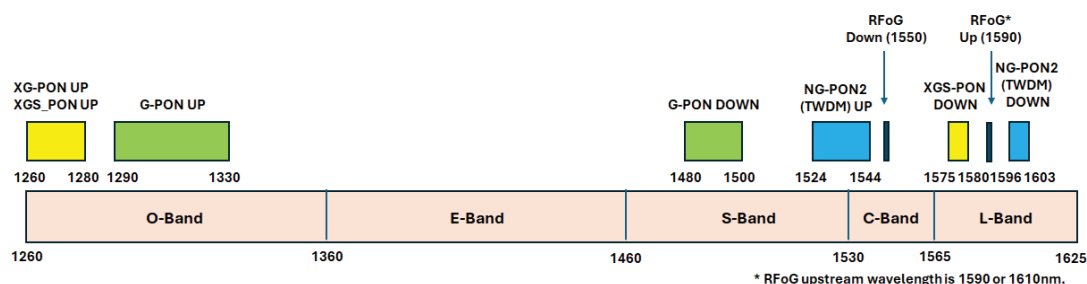


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CHANNEL CONFIGURATIONS



UPSTREAM AND DOWNSTREAM WAVELENGTH PLAN FOR PON MUX



ORDERING INFORMATION

PONMUX	Configuration	Port	Package	Fiber Type*	Pigtail Style	Fiber Length**	In Connector	Out Connector
	S=Single	103=1x3	S=S package	2=SMF-28 Ultra	None= for Lx,R1 package	05=0.5m	0= None	0= None
	D=Duplex		F=F package	(G.657.A1)		10=1.0m	1= FC/APC	1= FC/APC
	T=Triplex		G=G package	3=ClearCurve	1=Bare fiber	·	2= FC/PC	2= FC/PC
	Q=Quadplex		L1=Single LGX	ZBL(G.657.B3)	2=900um	·	3= SC/APC	3= SC/APC
					loose tube	·	4= SC/PC	4= SC/PC
						20=2.0m	5= ST	5= ST
							6= LC/UPC	6= LC/UPC
							7= LC/APC	7= LC/APC

*1=SMF-28(G.652) is available upon request.

** Other length is available upon request, However, 900µm loose tube is only up to 2m.

RELATED PRODUCTS

[PON MUX of GPON, 10GPON, NG-PON2 and RFoG Coexistence](#) **NEW**

[NG-PON2 \(TWDM\) MUX](#) **NEW**

[PON WDM](#) **NEW**

[PLC Splitter Module and Rack](#)