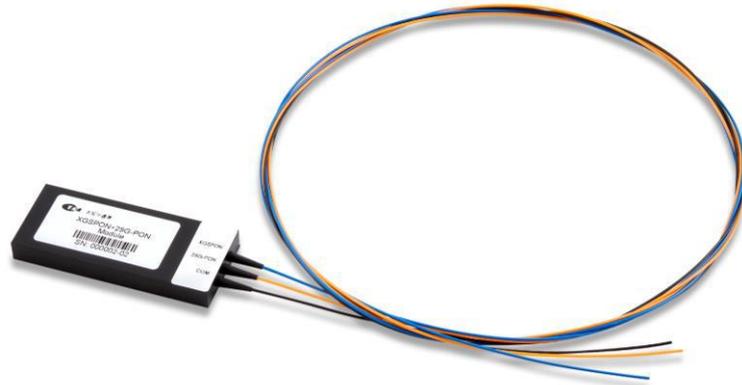


## X-PONs series WDM Module

### Features

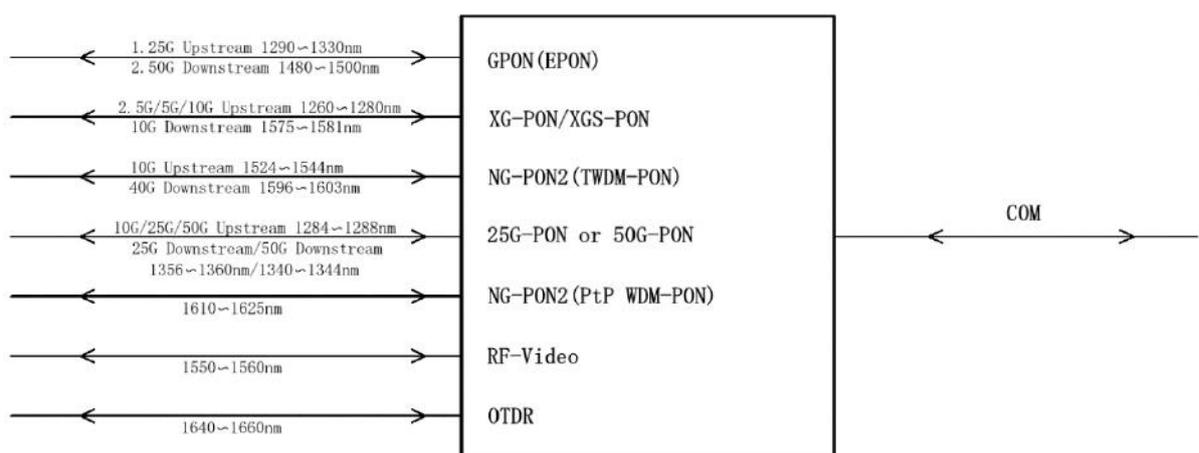
- Automatic Optical alignment
- Bi-directional
- Optical path epoxy free
- Low insertion loss & high Isolation;
- Thin Film Filter Technology
- RoHS compliant



### Applications

With the addition of a third uplink wavelength band (1284-1288nm) in the existing 1260-1280 and 1290-1310 frequency bands by the G.9804.1 standard, 50G-PON or 25G-PON, XGS-PON, and GPON can now coexist on the same ODN network. PON deployment supporting the coexistence of the third mock examination is very critical, because operators have repeatedly said that they do not want to interrupt the ODN network when evolving to new technologies. This not only utilizes the existing space of the office, but also eliminates the need to modify the ODN network, saving network construction costs.

T&S' X-PONs Series is designed for Next Generation Passive Optical Networks (NG-PON), a new optical access system that coexists with GPON+XGS-PON+NG-PON2+50G-PON on the same ODN. Our X-PONs Modules, also including RF-Video and OTDR, which are designed to accommodate GPON/XGS-PON, NG-PON2,25G-PON,50G-PON wavelengths to maximize the density and enhance the speed of optical distribution network.



## Specification

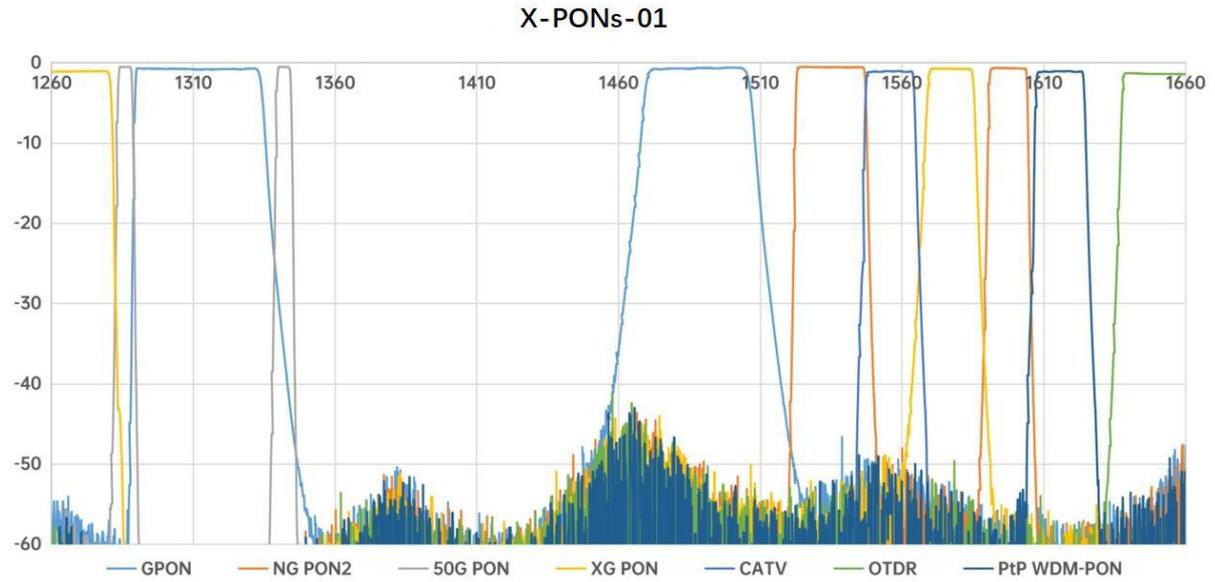
Parameters	Unit	Specification
Operating Wavelength Range	nm	1260~1660
Channel Wavelength	GPON Bands	1290~1330&1480~1500
	XG-PON/XGS-PON Bands	1260~1280&1575~1581
	NG-PON2(TWDM-PON) Bands	1524~1544&1596~1603
	25G-PON or 50G-PON Bands	1284~1288&1340~1344/1284~1288&1356~1360
	NG-PON2(PtP WDM-PON) Bands	1610~1625
	RF-Video Bands	1550~1560
	OTDR Bands	1640~1660
Insertion Loss*	COM to PONs	≤2.0
	COM to RF-Video	≤2.3
	COM to OTDR	≤2.6
Pass Channel Ripple	dB	≤0.5
Isolation	dB	≥30
Return Loss	dB	≥45
Directivity	dB	≥45
Polarization Dependent Loss	dB	≤0.3
Polarization Mode Dispersion	Ps	≤0.2
Power handling	mW	≤500
Fiber Type	/	Corning SMF-28 Ultra, G657A1/A2 or customer specified
Fiber Length	m	1.0m or customer specified
Connector Type	/	LC,SC, or customer specified
Operating Temperature	°C	-10~+70
Storage Temperature	°C	-40~+85
Package Dimension	mm	L100 x W80 x H10 ABS Box; L60xW50xH7.0 or L60xW25xH7.0 Metal Box; Cartridge: 130X100X25; LGX Box: (HxWxD: 29x129x160mm)

### Note:

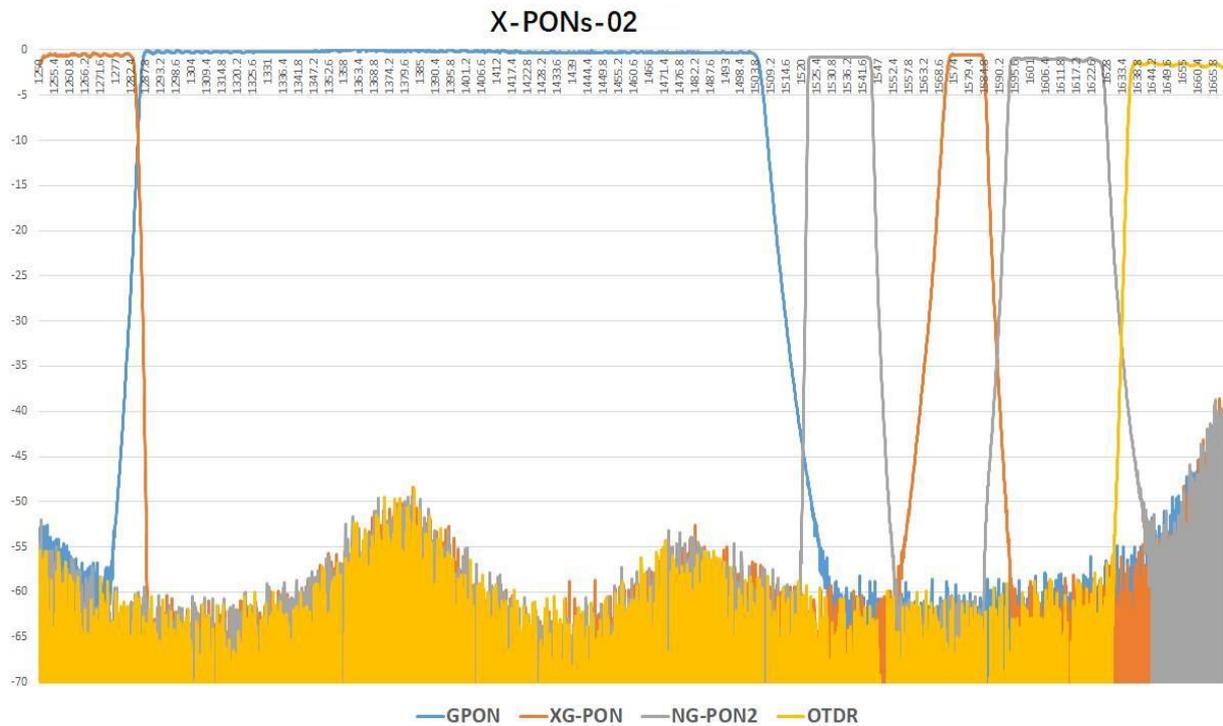
- Insertion loss excluding connector loss. With connectors add 0.3dB;
- Customized dimension is available.
- Tap monitoring port and express port is optional.

### Spectral Test Chart

#### Type A:



#### Type B:



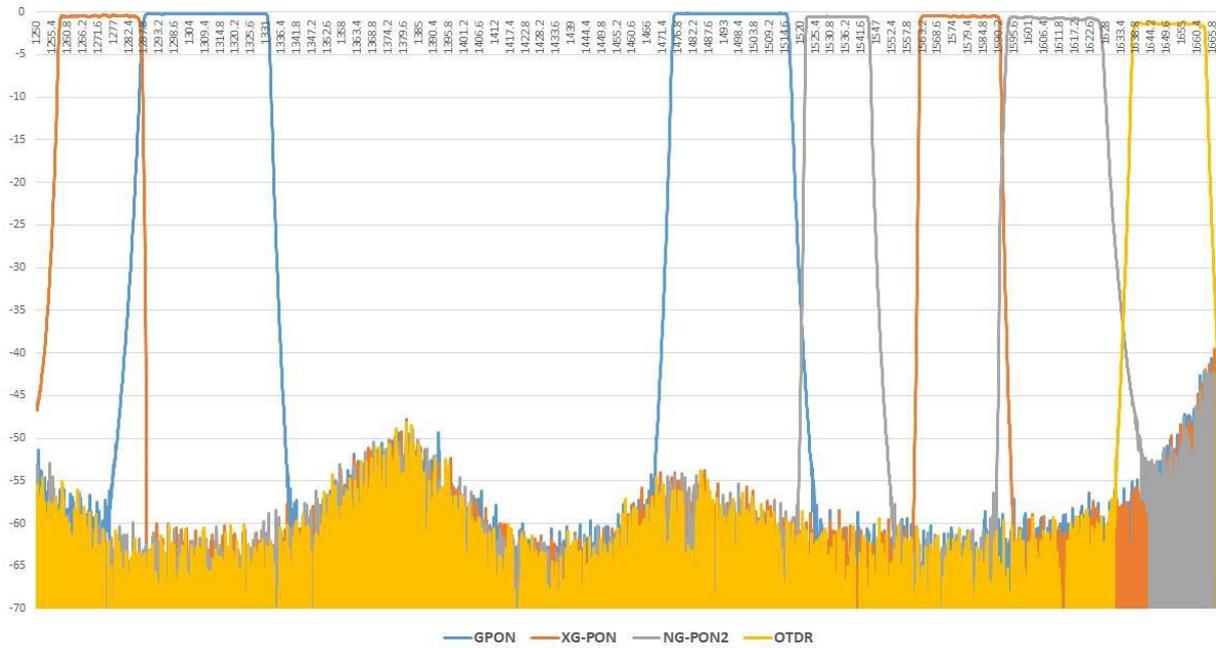
Information and specifications are subject to change without notice.  
Please visit [www.china-tscom.com](http://www.china-tscom.com) for more information

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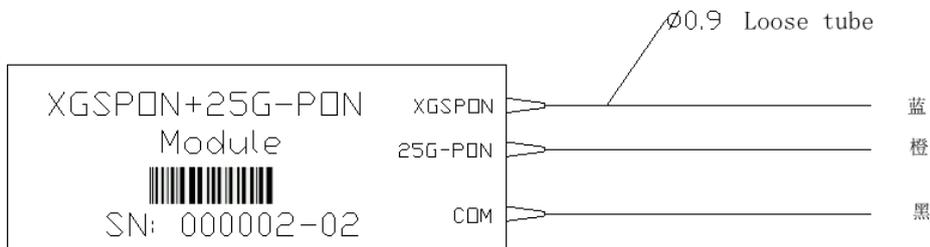
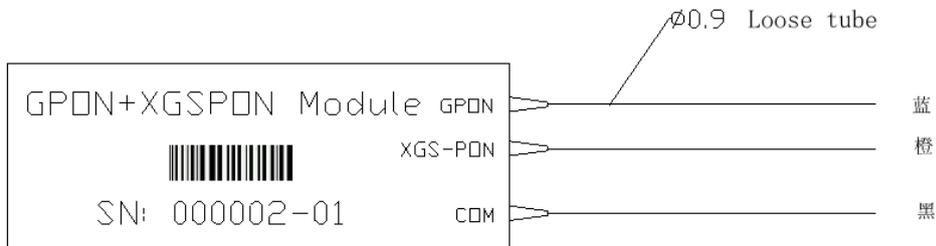


Type C:

X-PONs-03



Cex-wdm series types:



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