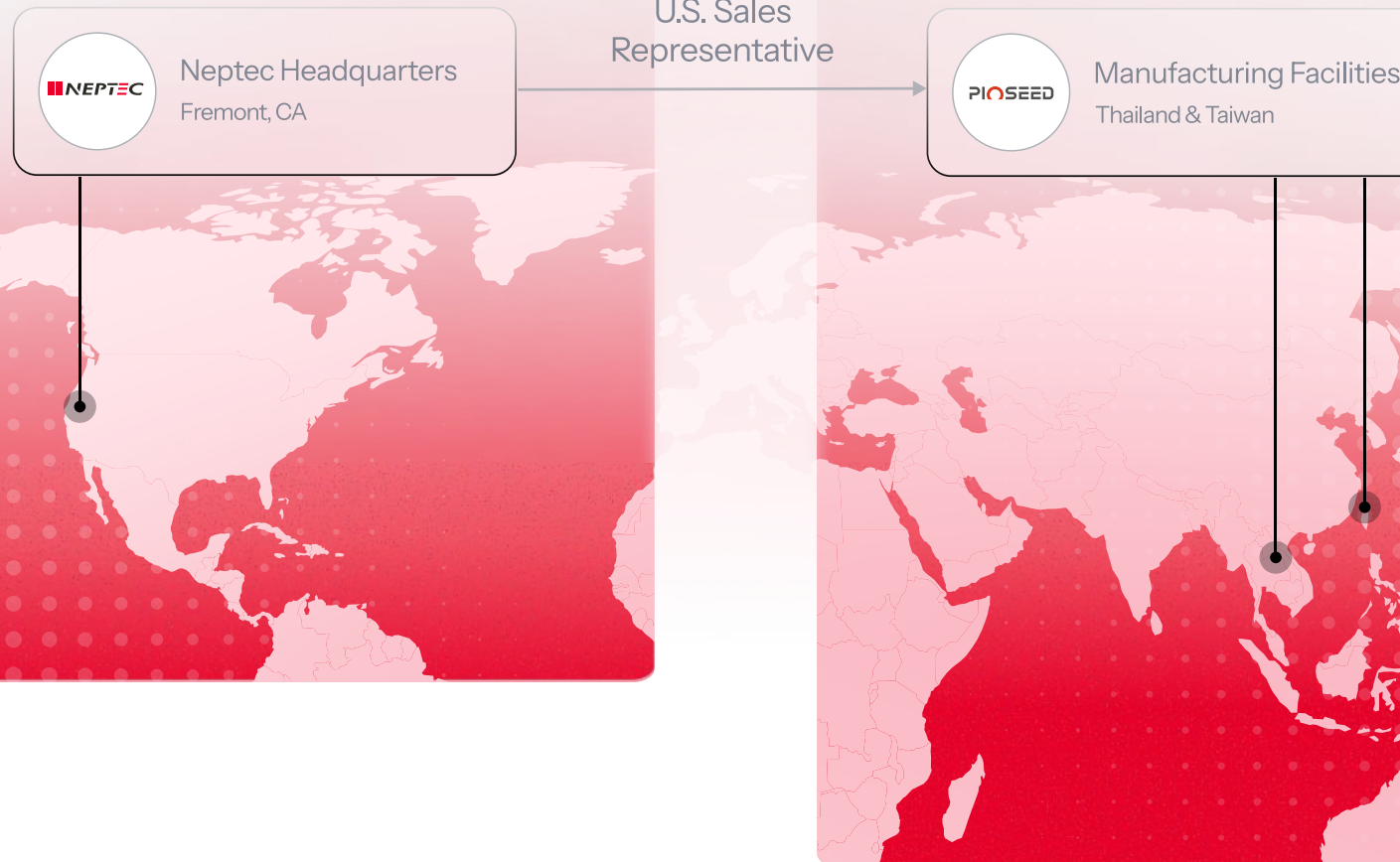




PON TRX
PON OSA

Product List

**PON transceivers and
optical sub-assemblies**
for your access networks



CONTACT US:
WWW.NEPTECOS.COM SALES@NEPTECOS.COM +1 (510) 687-1101

P/N	Product Description	Package	Data Rate(Gbit/s)		Wavelength		Transmitter Power(dBm)		Receiver Power (dBm)		Max Power Consumption (W)	Reach	Temperatur (deg C)
			TX	RX	TX	RX	Min	Max	Min	Max			
50G Combo PON OLT													
THMQRS-DFGC-CNA	50G&XGS&GPON OLT N1	QSFP28	49.7664G/s 9.953Gb/s 2.488Gb/s	24.8832G/s 9.953Gb/s or 2.488Gb/s 1.244Gb/s	1342nm 1577nm 1490nm	1286nm 1270nm 1310nm	5.5dBm 2dBm 1.5dBm	11dBm 5dBm 5dBm	-24.5dBm -26.5dBm/-27.5dBm -28dBm	-5dBm -5dBm/-7dBm -8dBm	5.5	20km	0~70
THMQRS-DFGC-CNB	50G&XGS&GPON OLT C+	QSFP28	49.7664G/s 9.953Gb/s 2.488Gb/s	24.8832G/s 9.953Gb/s or 2.488Gb/s 1.244Gb/s	1342nm 1577nm 1490nm	1286nm 1270nm 1310nm	8.5dBm 5dBm 4.5dBm	14dBm 8dBm 8.5dBm	-27.5dBm -29dBm/-30.5dBm -32dBm	-8dBm -8dBm/-10dBm -12dBm	5.5	20km	0~70
THMPRS-DFGC-CXB	50G&XGS OLT C+	SFP-DD	49.7664G/s 9.953Gb/s	24.8832G/s 9.953Gb/s or 2.488Gb/s	1342nm 1577nm	1286nm 1270nm	8.5dBm 5dBm	14dBm 8dBm	-27.5dBm -29dBm/-30.5dBm	-8dBm -8dBm/-10dBm	4.5	20km	0~70
THMPRS-DFGC-CNA	50G&XGS&GPON OLT N1	SFP-DD	49.7664G/s 9.953Gb/s 2.488Gb/s	24.8832G/s 9.953Gb/s or 2.488Gb/s 1.244Gb/s	1342nm 1577nm 1490nm	1286nm 1270nm 1310nm	5.5dBm 2dBm 1.5dBm	11dBm 5dBm 5dBm	-24.5dBm -26.5dBm/-27.5dBm -28dBm	-5dBm -5dBm/-7dBm -8dBm	5.5	20km	0~70
THMPRS-DFGC-CNB	50G&XGS&GPON OLT C+	SFP-DD	49.7664G/s 9.953Gb/s 2.488Gb/s	24.8832G/s 9.953Gb/s or 2.488Gb/s 1.244Gb/s	1342nm 1577nm 1490nm	1286nm 1270nm 1310nm	8.5dBm 5dBm 4.5dBm	14dBm 8dBm 8.5dBm	-27.5dBm -29dBm/-30.5dBm -32dBm	-8dBm -8dBm/-10dBm -12dBm	5.5	20km	0~70
50G PON OLT/ONU													
THMPRS-DFGC-NGA	50G PON OLT N1	SFP56	49.7664G/s	24.8832G/s	1342nm	1286m	5.5dBm	11dBm	-24.5dBm	-5dBm	3	20km	0~70
THMPRS-DFGC-NGB	50G PON OLT N2	SFP56	49.7664G/s	24.8832G/s	1342nm	1286m	5.5dBm	11dBm	-27.5dBm	-8dBm	3	20km	0~70
THMQRS-FDCG-NGA	50G PON ONU SC/UPC	QSFP56	24.8832G/s	49.7664G/s	1286nm	1342nm	5dBm	9dBm	-24dBm	-3dBm	4	20km	0~70
THMPRS-FDCG-NGA	50G PON ONU SC/UPC	SFP56	24.8832G/s	49.7664G/s	1286nm	1342nm	5dBm	9dBm	-24dBm	-3dBm	2	20km	0~70
THMPRA-FDCG-NGA	50G PON ONU SC/APC	SFP56	24.8832G/s	49.7664G/s	1286nm	1342nm	5dBm	9dBm	-24dBm	-3dBm	2	20km	0~70
THMPRS-FDCG-NGAI	50G PON ONU SC/UPC	SFP56	24.8832G/s	49.7664G/s	1286nm	1342nm	5dBm	9dBm	-24dBm	-3dBm	2.6	20km	-40~+85
THMPRA-FDCG-NGAI	50G PON ONU SC/APC	SFP56	24.8832G/s	49.7664G/s	1286nm	1342nm	5dBm	9dBm	-24dBm	-3dBm	2.6	20km	-40~+85
25GS PON													
THMPRA-FECC-MGAI	25GS-PON ONU SC/APC	SFP28	24.8832G/s	24.8832G/s	1286nm	1358nm	4.2dBm	9dBm	-24.9dBm	-7dBm	2	20km/40Km	-40~+85
THMPRA-FECC-MGA	25GS-PON ONU SC/APC	SFP28	24.8832G/s	24.8832G/s	1286nm	1358nm	4.2dBm	9dBm	-24.9dBm	-7dBm	1.7	20km/40km	0~70
THMPRS-FECC-MGAI	25GS-PON ONU SC/UPC	SFP28	24.8832G/s	24.8832G/s	1286nm	1358nm	4.2dBm	9dBm	-24.9dBm	-7dBm	2	20km/40Km	-40~+85
THMPRS-FECC-MGA	25GS-PON ONU SC/UPC	SFP28	24.8832G/s	24.8832G/s	1286nm	1358nm	4.2dBm	9dBm	-24.9dBm	-7dBm	1.7	20km/40Km	0~70
XGS Combo PON OLT													
THMPRS-6277-CGC	XGS Combo OLT C+	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	5dBm 3dBm	8dBm; 7dBm	-29/-30.5dBm -32dBm	-8/-10dBm -12dBm	3	20km	0~70
THMPRS-6277-CGCI	XGS Combo OLT C+	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	5dBm 3dBm	8dBm 7dBm	-29/-30.5dBm -32dBm	-8/-10dBm -12dBm	3.3	20km	-40~+85
THMPRS-6277-CGE	XGS Combo OLT C+/C++	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	5dBm 4.5dBm	8dBm 8dBm	-29/-30.5dBm -33dBm	-8/-10dBm -12dBm	3	20km	0~70
THMPRS-6277-CGEI	XGS Combo OLT C+/C++	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	5dBm 4.5dBm	8dBm 8dBm	-29/-30.5dBm -33dBm	-8/-10dBm -12dBm	3.3	20km	-40~+85
THMPRS-6277-CGD	XGS Combo OLT C++	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	7dBm 5dBm	10dBm 9dBm	-31/-32.5dBm -34dBm	-10/-12dBm -14dBm	3.2	20km	0~70
THMPRS-6277-CGDI	XGS Combo OLT C++	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	7dBm 5dBm	10dBm 9dBm	-31/-32.5dBm -34dBm	-10/-12dBm -14dBm	3.6	20km	-40~+85
THMPRS-6277-CGJ	XGS Combo OLT C++	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	7dBm 5dBm	10dBm 9dBm	-31/-32.5dBm -34dBm	-10/-12dBm -14dBm	3.2	60km	0~70
THMPRS-6277-CGH	XGS Combo OLT D	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	8dBm 6dBm	11dBm 10dBm	-32/-33.5dBm -35dBm	-11/-13dBm -15dBm	3.2	20km	0~70
THMPRS-6277-CGHI	XGS Combo OLT D	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	8dBm 6dBm	11dBm 10dBm	-32/-33.5dBm -35dBm	-11/-13dBm -15dBm	3.6	20km	-40~+85
THMPRS-6277-CGK	XGS Combo OLT D	SFP+	9.953Gb/s 2.488Gb/s	9.953Gb/s or 2.488Gb/s 1.2488Gb/s	1577nm 1490nm	1270nm 1310nm	8dBm 6dBm	11dBm 10dBm	-32/-33.5dBm -35dBm	-11/-13dBm -15dBm	3.2	60km	0~70

P/N	Product Description	Package	Data Rate(Gbit/s)		Wavelength		Transmitter Power(dBm)		Receiver Power (dBm)		Max Power Consumption (W)	Reach	Temperature (deg C)
			TX	RX	TX	RX	Min	Max	Min	Max			
XGS-PON OLT/ONU													
THMPRS-6277-GXB	XSGPON OLT N2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	4dBm	7dBm	-28/-29.5dBm	-7/-9dBm	1.8	20km	0~70
THMPRS-6277-GXBI	XSGPON OLT N2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	4dBm	7dBm	-28/-29.5dBm	-7/-9dBm	2.2	20km	-40~85
THMPRS-6277-GXL	XSGPON OLT N2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	4dBm	7dBm	-28/-29.5dBm	-7/-9dBm	1.4	20km	0~70
THMPRS-6277-GXLI	XSGPON OLT N2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	4dBm	7dBm	-28/-29.5dBm	-7/-9dBm	1.7	20km	-40~85
THMPRS-6277-GXC	XSGPON OLT E1	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	6dBm	9dBm	-30/-31.5dBm	-9/-11dBm	2	20km	0~70
THMPRS-6277-GXCI	XSGPON OLT E1	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	6dBm	9dBm	-30/-31.5dBm	-9/-11dBm	2.5	20km	-40~85
THMPRS-6277-GXE	XSGPON OLT E1	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	6dBm	9dBm	-30/-31.5dBm	-9/-11dBm	2	60km	0~70
THMPRS-6277-GXD	XSGPON OLT E2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	8dBm	11dBm	-32/-33.5dBm	-11/-13dBm	2	20km	0~70
THMPRS-6277-GXDI	XSGPON OLT E2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	8dBm	11dBm	-32/-33.5dBm	-11/-13dBm	2.5	20km	-40~85
THMPRS-6277-GXF	XSGPON OLT E2	SFP+	9.953Gb/s	9.953Gb/s or 2.488Gb/s	1577nm	1270nm	8dBm	11dBm	-32/-33.5dBm	-11/-13dBm	2	60km	0~70
THMPRS-2677-GXAI	XGSPON ONU SC/UPC	SFP+	9.953Gb/s	9.953Gb/s	1270nm	1577nm	4dBm	9dBm	-28.5dBm	-8dBm	1.3	20km	-40~+85
THMPRA-2677-GXAI	XGSPON ONU SC/APC	SFP+	9.953Gb/s	9.953Gb/s	1270nm	1577nm	4dBm	9dBm	-28.5dBm	-8dBm	1.3	20km	-40~+85
10G EPON OLT/ONU													
THMPRS-6288-EXA	10G EPON OLT PR30	SFP+	10.3125Gb/s 1.25Gb/s	10.3125Gb/s 1.25Gb/s	1577nm 1490nm	1270nm 1310nm	2dBm 3dBm	5dBm 7dBm	-28dBm -30dBm	-6dBm -9dBm	3	20km	0~70
THMXRS-6288-EXA	10G EPON OLT PR30	XFP	10.3125Gb/s 1.25Gb/s	10.3125Gb/s 1.25Gb/s	1577nm 1490nm	1270nm 1310nm	2dBm 3dBm	5dBm 7dBm	-28dBm -30dBm	-6dBm -9dBm	3	20km	0~70
THMPRS-6288-EXF	10G EPON OLT PR40	SFP+	10.3125Gb/s 1.25Gb/s	10.3125Gb/s 1.25Gb/s	1577nm 1490nm	1270nm 1310nm	5dBm 5dBm	9dBm 10dBm	-29dBm -32dBm	-9dBm -12dBm	3.5	20km	0~70
THMXRS-6288-EXF	10G EPON OLT PR40	XFP	10.3125Gb/s 1.25Gb/s	10.3125Gb/s 1.25Gb/s	1577nm 1490nm	1270nm 1310nm	5dBm 5dBm	9dBm 10dBm	-29dBm -32dBm	-9dBm -12dBm	3.5	20km	0~70
THMPRS-2688-EXBI	10GEPON ONU PR30	SFP+	10.3125Gb/s	10.3125Gb/s	1270nm	1577nm	4dBm	9dBm	-28.5dBm	-8dBm	1.3	20km	-40~+85
GPON/EPON OLT ONU													
THMPRS-4343-GBA	GPON OLT CLASS B+	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	1.5dBm	5dBm	-28dBm	-8dBm	1.5	20km	0~70
THMPRS-4343-GBAI	GPON OLT CLASS B+	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	1.5dBm	5dBm	-28dBm	-8dBm	1.5	20km	-40~+85
THMPRS-4343-GDA	GPON OLT CLASS C+	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	3dBm	7dBm	-32dBm	-12dBm	1.5	20km	0~70
THMPRS-4343-GDAI	GPON OLT CLASS C+	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	3dBm	7dBm	-32dBm	-12dBm	1.5	20km	-40~+85
THMPRS-4343-GQA	GPON OLT CLASS C++	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	4.5dBm	8dBm	-33dBm	-12dBm	1.5	20km	0~70
THMPRS-4343-GQAI	GPON OLT CLASS C++	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	4.5dBm	8dBm	-33dBm	-12dBm	1.5	20km	-40~+85
THMPRS-4343-GQB	GPON OLT CLASS D	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	6dBm	9dBm	-35dBm	-15dBm	1.5	20km	0~70
THMPRS4311-ECA	EPON OLT PX20+	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	2.5dBm	7dBm	-30dBm	-6dBm	1.5	20km	0~70
THMPRS4311-ECAI	EPON OLT PX20+	SFP	2.488Gb/s	1.2488Gb/s	1490nm	1310nm	2.5dBm	7dBm	-30dBm	-6dBm	1.5	20km	-40~+85
THMPRS-3434-GBHI	GPON ONU SC/UPC	SFP	1.244Gb/s	2.488Gb/s	1310nm	1490nm	0.5dBm	5dBm	-28.5dBm	-8dBm	1.3	20km	-40~+85
THMPRA-3434-GBHI	GPON ONU SC/APC	SFP	1.244Gb/s	2.488Gb/s	1310nm	1490nm	0.5dBm	5dBm	-28.5dBm	-8dBm	1.3	20km	-40~+85
THMPRS-3411-ECA	EPON ONU SC/UPC	SFP	1.25Gb/s	1.25Gb/s	1310nm	1490nm	-1dBm	4dBm	-27dBm	-3dBm	1	20km	0~70
THMFRS-3411-ECA	EPON ONU SC/UPC	SFF	1.25Gb/s	1.25Gb/s	1310nm	1490nm	-1dBm	4dBm	-27dBm	-3dBm	1	20km	0~70
THRFPA-3434-TGI	GPON Triplexer	SFF	1.244Gb/s	2.488Gb/s	1310nm	1490nm 1550nm	0.5dBm	5dBm	-27dBm -8dBm	-8dBm 2dBm	3.3	20km	0~70
THRFPA-000Q-RRH	RF ONU	F type connector	N/A	N/A	N/A	1550nm	N/A	N/A	-8dBm	2dBm	1.5	20km	0~70

GPON-XGPON ONU OSA												
P/N	Product Description	Package	Data Rate(Gbit/s)		Wavelength		Transmitter Power(mW)@Ith+20mA		Receiver Power (dBm)		Reach	Temperature (deg C)
			TX	RX	TX	RX	Min	Max	Min	Max		
TQDA3B447SPD	GPON&XGPON ONU	Pigtail	1.244G/s 2.488Gb/s	2.488Gb/s 9.953Gb/s	1310nm 1270nm	1490nm 1577nm	1.5mW 2.0mW	3.5mW 4.5mW	-29dBm -29.5dBm	-3dBm -7dBm	20km	-10~+85
GPON-XGSPON ONU OSA												
TQDA3B477SAD	GPON&XGSPON ONU	Pigtail	1.244Gb/s 9.953Gb/s	2.488Gb/s 9.953Gb/s	1310nm 1270nm	1490nm 1577nm	1.5mW 2.5mW	3.5mW 5mW	-29dBm -29.5dBm	-3dBm -7dBm	20km	-10~+85
25GS PON ONU OSA												
TBBD4C388SPC	25GS-PON ONU	Receptacle or Pigtail	24.88G/s	24.88G/s	1286nm	1358nm	2.5mW	6mW	-24.5dBm	-7dBm	20km	0~+70
50G ASY PON ONU OSA												
TBBD4C388SPC	50G ASY PON ONU	Receptacle or Pigtail	24.88G/s	49.766G/s	1286nm	342nm	2.5mW	6mW	-24dBm	-3dBm	20km	0~+70
XGS-PON ONU OSA												
TBBA3B477SPD	XGSPON PON ONU	Receptacle or Pigtail	9.953Gb/s	9.953Gb/s	1270nm	1577nm	2.5mW	6mW	-29.5dBm	-8dBm	20km	-10~+85
TBBA3B477SPA	XGSPON PON ONU	Receptacle or Pigtail	9.953Gb/s	9.953Gb/s	1270nm	1577nm	2.5mW	6mW	-29.5dBm	-8dBm	20km	-40~85
10G EPON SY ONU OSA												
TBBA3B477SPD	XGSPON PON ONU	Receptacle or Pigtail	10.312Gb/s	10.312Gb/s	1270nm	1577nm	2.5mW	6mW	-29.5dBm	-8dBm	20km	-10~+85
TBBA3B477SPA	XGSPON PON ONU	Receptacle or Pigtail	10.312Gb/s	10.312Gb/s	1270nm	1577nm	2.5mW	6mW	-29.5dBm	-8dBm	20km	-40~+85
GPON ONU OSA												
TBBA5B234SPD	GPON ONU	Receptacle or Pigtail	1.244Gb/s	2.488Gb/s	1310nm	1490nm	1.5mW	3.5mW	-29dBm	-3dBm	20km	-10~+85
TBBA5B234SPA	GPON ONU	Receptacle or Pigtail	1.244Gb/s	2.488Gb/s	1310nm	1490nm	1.5mW	3.5mW	-29dBm	-3dBm	20km	-40~+85
GPON FTTR OSA												
TBBA5B234SPD	GPON FTTR ONU	Receptacle or Pigtail	1.244Gb/s	2.488Gb/s	1310nm	1490nm	0.6mW	1.2mW	-3dBm	-3dBm	20km	-10~+85
TBBB2A543SPD	GPON FTTR OLT	Receptacle or Pigtail	2.488Gb/s	1.244Gb/s	1490nm	1310nm	0.6mW	1.6mW	-3dBm	-3dBm	20km	-10~+85