

Cost-effective,
Excellent Quality, Fast Delivery

OptoWiz

Optical Transceivers, Passive

To Make Difference
Global Partner for “Optical Communications”



OptoWiz

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About us

OptoWiz is a global supplier of various high-speed optical transceivers and transponders that enable the transmission of video, voice and data over high-capacity fiber optic cables for high-speed data and telecommunications network.

We are specialized in developing and manufacturing high performance optical transceiver for up to 40Gb/s which are widely applied in Telecom, Datacom and, Wireless application. Our all products are fully compliant MSA for

Fiber Channel (FC), Gigabit Ethernet (GbE), SONET/SDH, and G-PON for FTTx applications. Our products feature especially excellent performance over extended temperature ranges while minimizing jitter, Electron Magnetic Interference (EMI) and power consumption.

We have a strong management team and the ability to execute in an advanced industry as well as the R&D, manufacturing, and global supply chain to delivery cutting-edge products in high volume to accelerate market adoption. Corporate headquarters are located in South Korea.

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Duplex SFP

Product Feature

- Up to 4.25Gbps
- Multi-rate optical data link
- 850/1310/1550nm VCSEL/FP/DFB
- 18ch CWDM DFB LD for CWDM SFP
- PIN-PD or APD Receiver
- Complies with SFP MSA & SFF-8472
- 3.3V power supply
- Low power dissipation
- Metal enclosure, low EMI
- RoHS compliant



Applications

- Gigabit Ethernet/1X/2X/4X Fiber Channel
- SONET OC-48/SDH STM-16
- SONET OC-12/ SDH STM-4
- SONET OC-3/SDH STM-1
- Video Application

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)	
DP02TI1-xxF3	155M	15km	FP	1310	-14 ~ -9	PIN PD	-34	ST, ET, IT	
DP02TI2-xxF3		40km	FP	1310	-5 ~ 0	PIN PD	-34	ST, ET, IT	
DP02TL2-xxD5		80km	DFB	1550	-5 ~ 0	PIN PD	-35	ST, ET, IT	
DP02TV1-xxD5		120km	DFB	1550	0 ~ 5	PIN PD	-37	ST, ET, IT	
DP12TSX-xxV8	1.25G	550m	VSCEL	850	-9 ~ -3	PIN PD	-17	ST, ET	
DP12TLX-xxF3		10km	FP	1310	-9 ~ -4	PIN PD	-20	ST, ET, IT	
DP12TLE-xxD3		20km	DFB	1310	-7 ~ -3	PIN PD	-21	ST, ET, IT	
DP12TEX-xxD3		40km	DFB	1310	-5 ~ 0	PIN PD	-22	ST, ET, IT	
DP12TZX-xxD5		80km	DFB	1550	0 ~ 5	PIN PD	-24	ST, ET, IT	
DP12TVX-xxD5		120km	DFB	1550	0 ~ 5	APD	-31	ST, ET, IT	
DP12CZX-xyyy		80km	DFB	1270 ~ 1610	0 ~ 5	PIN PD	-24	ST, ET	
DP12CVX-xyyy		120km	DFB	1270 ~ 1610	0 ~ 5	APD	-31	ST, ET	
DP25TS1-xxV8		2.5G	300m	VSCEL	850	-9 ~ -4	PIN PD	-17	ST, ET
DP25TSR-xxF3			2km	FP	1310	-9 ~ -4	PIN PD	-19	ST, ET, IT
DP25TI1-xxD3	15km		DFB	1310	-5 ~ 0	PIN PD	-19	ST, ET, IT	
DP25TL1-xxD3	40km		DFB	1310	-2 ~ 3	APD	-27	ST, ET	
DP25TI2-xxD5	40km		DFB	1550	-5 ~ 0	PIN PD	-19	ST, ET, IT	
DP25TL2-xxD5	80km		DFB	1550	-2 ~ 3	APD	-28	ST, ET	
DP25CL2-xyyy	80km		DFB	1270 ~ 1610	0 ~ 5	APD	-28	ST	
DP40TSX-xxV8	4.25G		150m	VSCEL	850	-9 ~ -4	PIN PD	-15	ST, ET, IT
DP40TLX-xxD3		10km	DFB	1310	-8 ~ -3	PIN PD	-18	ST, ET, IT	
DP40CLE-xyyy		20km	DFB	1270 ~ 1610	-4 ~ 1	PIN PD	-18	ST	
DP40TEX-xxD3		30km	DFB	1310	0 ~ 5	PIN PD	-18	ST, ET, IT	

Notes :

- xx denotes operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)
- yy denotes 18ch wavelength option : 27=1270nm, 29=1290nm ~ 59=1590nm, 61=1610nm

SC BiDi SFP

Product Feature

- Up to 3.2Gbps
- Multi-rate, Bi-directional optical data link
- SFP with CWDM LD available
- Complies with SFP MSA & SFF-8472
- 3.3V power supply
- Low power dissipation
- Metal enclosure, low EMI
- RoHS compliant



Applications

- Gigabit Ethernet/1x/2x Fiber Channel
- SONET OC-48/ SDH STM-16
- SONET OC-12/ SDH STM-4
- SONET OC-3/SDH STM-1
- Wireless Optical Link

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
SP02T11-xxF3	155M	15km	FP	1310	-13 ~ -9	PIN PD	-33	ST, ET, IT
SP02T11-xxF5		15km	FP	1550	-13 ~ -9	PIN PD	-33	ST, ET, IT
SP02T12-xxF3		40km	FP	1310	-5 ~ 0	PIN PD	-34	ST, ET, IT
SP02T12-xxD4		40km	DFB	1490	-5 ~ 0	PIN PD	-34	ST, ET, IT
SP12TLX-xxF3	1.25G	10km	FP	1310	-8 ~ -3	PIN PD	-20	ST, ET, IT
SP12TLX-xxD5		10km	DFB	1550	-9 ~ -4	PIN PD	-20	ST, ET, IT
SP12TEX-xxD3		40km	DFB	1310	-3 ~ 2	PIN PD	-22	ST, ET, IT
SP12TEX-xxD5		40km	DFB	1550	-5 ~ 0	PIN PD	-22	ST, ET, IT
SP25T11-xxD3	2.5G	15km	DFB	1310	-5 ~ 0	PIN PD	-19	ST, ET, IT
SP25T11-xxD5		15km	DFB	1550	-5 ~ 0	PIN PD	-19	ST, ET, IT
SP25T12-xxD4		40km	DFB	1490	-5 ~ 0	PIN PD	-19	ST, ET, IT
SP25T12-xxD5		40km	DFB	1550	-5 ~ 0	PIN PD	-19	ST, ET, IT
SP32TSR-xxF3	3.2G	2km	FP	1310	-8 ~ -3	PIN PD	-20	ST, ET
SP32TSR-xxF5		2km	FP	1550	-8 ~ -3	PIN PD	-20	ST, ET
SP32T11-xxD3		15km	DFB	1310	-2 ~ 3	PIN PD	-22	ST, ET
SP32T11-xxD5		15km	DFB	1550	-2 ~ 3	PIN PD	-22	ST, ET

Notes :

1. xx denotes operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

LC BiDi SFP

Product Feature

- Up to 4.25Gbps
- Multi-rate, Bi-directional optical data link
- SFP with CWDM LD available
- Complies with SFP MSA & SFF-8472
- 3.3V power supply
- Low power dissipation
- Metal enclosure, low EMI
- RoHS compliant



Applications

- Gigabit Ethernet/1X/2X/4X Fiber Channel
- SONET OC-48/ SDH STM-16
- SONET OC-12/ SDH STM-4
- SONET OC-3/SDH STM-1
- Wireless Optical Link
- Video Application

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
LP02TI1-xxF3	155M	15km	FP	1310	-13 ~ -9	PIN PD	-33	ST, ET, IT
LP02TI1-xxF5		15km	FP	1550	-13 ~ -9	PIN PD	-33	ST, ET, IT
LP02TI2-xxF3		40km	FP	1310	-5 ~ 0	PIN PD	-34	ST, ET, IT
LP02TI2-xxD5		40km	DFB	1550	-5 ~ 0	PIN PD	-34	ST, ET, IT
LP02TL2-xxD3		60km	DFB	1310	-2 ~ 3	PIN PD	-35	ST, ET, IT
LP02TL2-xxD5		60km	DFB	1550	-3 ~ 2	PIN PD	-35	ST, ET, IT
LP12TLX-xxF3	1.25G	10km	FP	1310	-8 ~ -3	PIN PD	-21	ST, ET, IT
LP12TLX-xxD5		10km	DFB	1550	-9 ~ -4	PIN PD	-20	ST, ET, IT
LP12TEX-xxD3		40km	DFB	1310	-3 ~ 2	PIN PD	-23	ST, ET, IT
LP12TEX-xxD5		40km	DFB	1550	-5 ~ 0	PIN PD	-23	ST, ET, IT
LP12TZX-xxD3		60km	DFB	1310	0 ~ 5	PIN PD	-22	ST, ET, IT
LP12TZX-xxD5		60km	DFB	1550	-2 ~ 3	PIN PD	-22	ST, ET, IT
LP25TI1-xxD3	2.5G	15km	DFB	1310	-5 ~ 0	PIN PD	-19	ST, ET, IT
LP25TI1-xxD5		15km	DFB	1550	-5 ~ 0	PIN PD	-19	ST, ET, IT
LP25TI2-xxD4		40km	DFB	1490	-5 ~ 0	PIN PD	-19	ST, ET, IT
LP25TI2-xxD5		40km	DFB	1550	-5 ~ 0	PIN PD	-19	ST, ET, IT
LP25TL2-xxD4		80km	DFB	1490	-2 ~ 3	APD	-28	ST, ET
LP25TL2-xxD5		80km	DFB	1550	-2 ~ 3	APD	-28	ST, ET
LP40TI2-xxD3	4.25G	20km	DFB	1310	0 ~ 5	PIN PD	-18	ST, ET
LP40TI2-xxD5		20km	DFB	1550	0 ~ 5	PIN PD	-18	ST, ET

Notes :

1. xx denotes operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

Single Fiber Single Wavelength SFP

Product Feature

- Up to 3.2Gbps
- Single fiber single wavelength (SFSW) optical link
- Supports 18ch CWDM channels in one fiber
- Receptacle or Pigtail
- Complies with SFP MSA & SFF-8472
- 3.3V power supply
- Low power dissipation
- Metal enclosure, low EMI
- RoHS compliant



Applications

- Point-to-Point networking
- CWDM Network
- Wireless Optical Link

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
LA12CLX-xyxy	155M	10km	CWDM	18ch	-8 ~ -3	PIN PD	-19	ST, ET
LA12CLX-xyxy(P)		10km	CWDM	18ch	-8 ~ -3	PIN PD	-19	ST, ET
LA12CEX-xyxy		40km	CWDM	18ch	-5 ~ 0	PIN PD	-21	ST, ET
LA12CEX-xyxy(P)		40km	CWDM	18ch	-5 ~ 0	PIN PD	-21	ST, ET
LA32CI1-xyxy	1.25G / 3.2G	15km	CWDM	18ch	-4 ~ 1	PIN PD	-18	ST, ET
LA32CI1-xyxy(P)		15km	CWDM	18ch	-4 ~ 1	PIN PD	-18	ST, ET
LA32CI2-xyxy		40km	CWDM	18ch	-2 ~ 1	PIN PD	-20	ST, ET
LA32CI2-xyxy(P)		40km	CWDM	18ch	-2 ~ 1	PIN PD	-20	ST, ET

Notes :

1. (P) denotes pigtail connector
2. xx denotes operating temperature range option : ST= Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)
3. yy denotes 18ch wavelength option : 27=1270nm, 29=1290nm ~ 59=1590nm, 61=1610nm

High Density CWDM BiDi SFP

Product Feature

- Up to 6Gbps
- Supports 18ch CWDM channels in one fiber
- Cooled CWDM DFB LD and PIN PD-PD
- Wavelength stability of +/-0.2nm over operating temperature range
- Receptacle or Pigtail
- Applicable for PC/UPC connected optical network
- Complies with SFP MSA & SFF-8472
- 3.3V power supply
- Low power dissipation
- Metal enclosure, low EMI
- RoHS compliant



Applications

- Point-to-Point networking
- CWDM Network
- Wireless Optical Link

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
LA12CEX-ETxxyy	1.25G	40km	DFB	1270 ~ 1610	-4 ~ 1	PIN PD	-21	ST, ET
LA12CEX-ETxxyy(P)		40km	DFB	1270 ~ 1610	-4 ~ 1	PIN PD	-21	ST, ET
LA32C12-ETxxyy	2.5G / 3.2G	40km	DFB	1270 ~ 1610	-4 ~ 1	PIN PD	-20	ST, ET
LA32C12-ETxxyy(P)		40km	DFB	1270 ~ 1610	-4 ~ 1	PIN PD	-20	ST, ET
LA60CLE-ETxxyy	6G	20km	DFB	1270 ~ 1410	-4 ~ 1	PIN PD	-15	ST, ET
LA60CLE-ETxxyy(P)		20km	DFB	1270 ~ 1410	-4 ~ 1	PIN PD	-15	ST, ET

Notes :

1. (P) denotes pigtail connector
2. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)
3. xx denotes 36ch TX wavelength option : 26=1260nm, 27=1270nm ~ 60=1600nm, 61=1610nm
4. yy denotes 36ch Rx wavelength option : 26=1260nm, 27=1270nm ~ 60=1600nm, 61=1610nm
5. LC/PC available upon request

XFP

Product Feature

- Fully compliant with the XFP MSA – INF 8077i
- 10Gb/s serial optical interface compliant with 802.3ae
- 9.95Gbps ~ 11.3Gbps operation
- No reference clock required
- Conform to Class-1 laser safety standards
- XFI high speed electrical interface
- 2-wire interface for management and digital diagnostic monitoring
- XFP mechanical interface with bail latch and hot pluggable
- Extended case temperature range
- All-metal housing for superior EMI performance
- RoHS compliant



Applications

- SONET OC-192/SDH STM-64
- IEEE 802.3 10Gbps Ethernet
- 10G Fiber Channel
- High-Speed Storage Area Network

Part Number	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
XP10TSR-xxV8	300m	VCSEL	850	-6.5 ~ -1	PIN PD	-11.1	ST, ET
XP10TLR-xxD3	10km	DFB	1310	-6 ~ -1	PIN PD	-14.4	ST, ET
XP10TER-xxE5	40km	EML	1550	-3 ~ 3	PIN PD	-15.8	ST, ET
XP10TZR-xxE5	80km	EML	1550	0 ~ 4	APD	-24.0	ST, ET
XP10CER-xyyy	40km	EML	1470 ~ 1610	-3 ~ 3	PIN PD	-15.8	ST, ET
XP10CZR-xyyy	70km	EML	1470 ~ 1610	0 ~ 4	APD	-24.0	ST, ET
XP10DER-xyyy	40km	EML	1527.22 ~ 1563.86	-1 ~ 3	PIN PD	-15.8	ST, ET
XP10DZR-xyyy	80km	EML	1527.22 ~ 1563.86	0 ~ 4	APD	-24.0	ST, ET
XB10TLE-xyyy	20km	DFB	1270-1430	-6 ~ -1	PIN PD	-14.6	ST, ET, IT
XT10DER-ST	40km	MZM Tunable	1528.77 ~ 1563.86	-1 ~ 3	PIN PD	-16	ST
XT10DZR-ST	80km	MZM Tunable	1528.77 ~ 1563.86	-1 ~ 3	APD	-23	ST

Notes :

1. XP=XFP Duplex, XB=XFP BiDi, XT= Tunable XFP

2. xx denotes operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

3. For CWDM, yy denotes 18ch wavelength option : 27=1270nm, 29=1290nm ~ 59=1590nm, 61=1610nm

4. For DWDM, yy denotes Channel code : 17=1563.86nm ~ 63=1527.22nm

SFP+

Product Feature

- 10Gb/s serial optical interface compliant to 802.36ae
- Electrical interface compliant with SFF-8431 specifications for enhanced 8.5 and 10 Gigabit small form factor pluggable module SFP+
- 2-wire interface for management specifications compliant with SFF 8472 digital diagnostic monitoring interface for optical transceivers
- Cost effective SFP+ solution
- Extended case temperature range
- 3.3V power supply
- Low power consumption
- Digital diagnostics capabilities
- RoHS compliant



Applications

- SONET OC-192/SDH STM-64
- IEEE 802.3 10Gbps Ethernet
- 10G Fiber Channel
- High-Speed Storage Area Network

Part Number	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
SD10TSR-xxV8	300m	VCSEL	850	-6.5 ~ -1	PIN PD	-11.1	ST, ET
SD10TSR-xxV8 (R)	300m	VCSEL	850	-6.5 ~ -1	PIN PD	-11.1	ST, ET
SD10TLR-xxD3	10km	DFB	1310	-8.2 ~ 0.5	PIN PD	-14.4	ST, ET
SD10TLR-xxD3 (R)	10km	DFB	1310	-8.2 ~ 0.5	PIN PD	-14.4	ST, ET
SD99TLR-xxD3 (C)	10km	DFB	1310	-6 ~ -1	PIN PD	-14.4	ST, ET
SD10TER-xxE5	40km	EML	1550	-3 ~ 3	PIN PD	-15.8	ST, ET
SD10TER-xxE5 (C)	40km	EML	1550	-3 ~ 3	PIN PD	-15.8	ST, ET
SD10TZR-xxE5	80km	EML	1550	0 ~ 4	APD	-24	ST, ET
SD10TZR-xxE5 (C)	80km	EML	1550	0 ~ 4	APD	-24	ST, ET
SD10CLR-xxyy	10km	DFB	1270 ~ 1410	-1 ~ 3	PIN PD	-15	ST, ET
SD10CER-xxyy	40km	EML	1470 ~ 1610	0 ~ 4	PIN PD	-16.4	ST, ET
SD10CER-xxyy (C)	40km	EML	1470 ~ 1610	0 ~ 4	PIN PD	-16.4	ST, ET
SD10CZR-xxyy	70km	EML	1470 ~ 1610	0 ~ 4	APD	-24	ST, ET
SD10CZR-xxyy (C)	70km	EML	1470 ~ 1610	0 ~ 4	APD	-24.0	ST, ET
SD10DER-xxyy	40km	EML	1527.22 ~ 1563.86	0 ~ 4	PIN PD	-16.4	ST, ET
SD10DER-xxyy (C)	40km	EML	1527.22 ~ 1563.86	0 ~ 4	PIN PD	-16.4	ST, ET
SD10DZR-xxyy	80km	EML	1527.22 ~ 1563.86	0 ~ 4	APD	-24	ST, ET
SD10DZR-xxyy (C)	80km	EML	1527.22 ~ 1563.86	0 ~ 4	APD	-24	ST, ET
SB10TLE-xxyy	20km	DFB	1270, 1330	-5.2 ~ 0.5	PIN PD	-14.4	ST, ET, IT
SB10TER-xxyy	40km	DFB	1270, 1330	-1 ~ 4	APD	-22	ST, ET, IT

Notes :

1. SD=SFP+ Duplex, SB=SFP+ BiDi, (C)=Clock Data Recovery, (R)=Rate Select Function
2. xx denotes operating temperature range option : ST=Standard Temp, (0 to 70°C), ET=Extended Temp, (-20 to 85 °C), IT=Industrial Temp, (-40 to 85 °C)
3. For CWDM, yy denotes 18ch wavelength option : 27 : 1270nm, 29 : 1290nm ~ 59 : 1590nm, 61 : 1610nm
4. For DWDM, yy denotes Channel code : 17 : 1563,86nm ~ 63 : 1527,22nm

GEPON

Product Feature

- Complies with IEEE 802.3ah
- 1.25Gbps upstream/downstream
- Bi-directional optical data link
- 1310nm burst mode/1490nm continuous mode
- Supports 20km transmission distance with SMF
- SC receptacle or pigtail available
- 3.3 V power supply
- Low power consumption
- Low EMI and excellent ESD protection
- RoHS compliant



Applications

- Gigabit Ethernet Access Network
- Fiber-to-the Home/Curb/Building (FTTx)
- Point-to-Multipoint Service (P2MP)

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)	OLT/ONU
LSP4333-CKSA-R	1.25G	20Km	DFB	1490	2 ~ 7	APD	-30	ST	OLT
LSP4334-CKSA-30		30Km	DFB	1490	5 ~ 8	APD	-33	ST	OLT
NSF2433NEESA		20Km	FP	1310	-1 ~ 4	PIN PD	-25.5	ST, IT	ONU

Notes :

1. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

GPON

Product Feature

- Complies with ITU-T G.984.x
- 1.25Gbps upstream/2.5Gbps downstream
- Bi-directional optical data link
- 1310nm burst mode/1490nm continuous mode
- Supports 20km transmission distance with SMF
- SC receptacle or pigtail available
- 3.3 V power supply
- Low power consumption
- Low EMI and excellent ESD protection
- RoHS compliant



Applications

- Gigabit-capable Passive Optical Networks (GPON) 20Km
- Fiber-to-the-Home/Curb/Building (FTTx)
- Point-to-Multipoint Service (P2MP)

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)	OLT/ONU
LSP4343-CKSA-R	2.5G	20Km	DFB	1490	1.5 ~ 5	APD	-28	ST	OLT
LSP4344-CKSA-N	2.5G	30Km	DFB	1490	3 ~ 7	APD	-32	ST	OLT
NPH3434-BKSA	1.25G	20Km	FP	1310	0.5 ~ 5	APD	-28	ST, IT	ONU

Notes :

1. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

10GEPON

Product Feature

- Complies with IEEE P802.3av
- 10.3125Gbps upstream/downstream for symmetric configuration
- 1.25Gbps upstream/10.3125Gbps downstream for asymmetric configuration
- 1270nm burst mode/1577nm continuous mode for 10Gbps
- 1310nm burst mode/1490nm continuous mode for 1Gbps
- XFP package with SC receptacle for OLT
- SFP+ package with SC receptacle for ONU
- 3.3V or 5V power supply
- Low power consumption
- Low EMI and excellent ESD protection
- RoHS compliance



Applications

- 10 Gigabit Ethernet Access over PON Networks
- Fiber-to-the-Home/Curb/Building (FTTx)
- Point-to-Multipoint Service (P2MP)

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)	OLT/ONU
LSXA393-CKSA	10G	20Km	EML DFB	1577 1490	2 ~ 5 2 ~ 7	APD	-30	ST	Asymmetric OLT
LSXA399-BJSA	10G	20Km	EML DFB	1577 1490	2 ~ 5 2 ~ 7	APD	-24 -30	ST	Symmetric OLT
NST3A39-BJSA	1G	20Km	DFB	1310	0 ~ 4	APD	-24	ST	Asymmetric ONU
NST1A99-HJSA	10G	20Km	EML	1270	4 ~ 9	APD	-24	ST	Symmetric ONU
NST3A39-BKSA	1G	20Km	DFB	1310	1.5 ~ 7.5	APD	-28.5	ST, IT	Asymmetric ONU
NST1A99-HKSA	10G	20Km	EML	1270	4 ~ 9	APD	-29	ST, IT	Symmetric ONU

Notes :

1. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

XGPON

Product Feature

- Complies with ITU-T G.987.2
- 2.488 Gbps upstream/9.953Gbps downstream
- 1270nm burst mode/1577nm continuous mode
- XFP package with SC receptacle for OLT
- SFP+ package with SC receptacle for ONU
- High power 1577nm EML/High Sensitivity 1270nm APD for OLT
- High power 1270nm DML/High Sensitivity 1577nm APD for ONU
- 3.3V or 5V power supply
- Low power consumption
- Low EMI and excellent ESD protection
- RoHS compliance



Applications

- 10 Gigabit-capable Passive Optical Networks (XGPON)
- Fiber-to-the-Home/Curb/Building (FTTx)
- Point-to-Multipoint Service (P2MP)

Part Number	Data Rate (pbs)	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)	OLT/ONU
NST1A49-CJSA	10G	20km	DML DFB	1270	2 ~ 7	APD	-28	ST	ONU
LSXA394-CKSA	2.5G	20km	EML DFB	1577	2 ~ 6	APD	-27.5	ST	OLT

Notes :

1. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

40Gbps QSFP+

Product Feature

- Up to 11.2Gbps per channel
- Form factors compliant with QSFP+ MSA
- 3.3V power supply through 38PIN PD electrical connector
- Digital diagnostic capabilities
- For QSFP+ SR4, 4 independent full duplex channels with MTP/MPO optical connector
- For QSFP+ LR4, 4Ch CWDM MUX/DEMUX design



Applications

- 40G Ethernet
- Data Center Interconnects
- Enterprise Switch and Router
- InfiniBand-SDR, DDR, QDR

Part Number	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
QS40TSR-STV8	100m	VCSEL	850	-8 ~ 1	PIN PD	-13	ST
QS40CSR-ST4C	2km	DFB	1270,1290, 1310,1330	-2 ~ 3.5	PIN PD	-11.5	ST
QS40CLR-ST4C	10km	DFB	1270,1290, 1310,1330	-7 ~ 2.3	PIN PD	-11.5	ST

Notes :

1. For QS40TSR-STV8, transmission distance is up to 100m with OM3 MMF
2. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

40Gbps QSFP+ AOC

Product Feature

- Up to 12.5Gbps per channel
- Up to 100m OM3 MMF transmission
- Transceiver unit with independent 4 full duplex channels
- Form factors compliant with QSFP+ MSA
- 3.3V Power supply
- Digital diagnostic capabilities
- RoHS compliant



Applications

- 40G Ethernet
- Infiniband QDR
- Data Center Interconnects

Part Number	Distance	LD Type	Tx Wavelength (nm)	Channel Data Range	Rx	Rx Sensitivity (dBm)	Operating Case Temp. (°C)
AO40TSR-STV8	1~100m	VCSEL	850	Up to 12.5Gbps	< 10E-15	38 PIN PD (Edge connector)	ST

Notes :

1. Operating temperature range option : ST=Standard Temp. (0 to 70°C), ET=Extended Temp. (-20 to 85 °C), IT=Industrial Temp. (-40 to 85 °C)

40Gbps CFP

Product Feature

- Up to 11.2Gbps per channel
- Transceiver unit with independent 4 CWDM T ransmitters and Receivers
- 4x10Gbps Parallel optical Interface compliant to 802.3ba 40G Form factors compliant to CFP MSA
- Independent channel timing
- MDIO digital diagnostic and control compliant with CFP MSA management interface specification
- 3.3V Power supply through 148PIN PD electrical connector
- Individually addressable channel control single channels can be enabled/disabled



Applications

- Data Center Interconnects
- Metro Optical Networks
- Switch and router

Part Number	Distance	Tx	Wavelength	Tx Power (dBm)	Rx	Rx Sensitivity (dBm)	Operating Case Temperature (°C)
CF40CLR-ST4C	10km	DFB	1270,1290,1310,1330	-6 ~ 2.5	PIN PD	-11.5	ST
CF40CER-ST4C	40km	DFB	1270,1290,1310,1330	-6 ~ 2.5	APD	-20	ST

Notes :

1. Operating temperature range option : ST=Standard Temp. (0 to 70℃), ET=Extended Temp. (-20 to 85 ℃), IT=Industrial Temp. (-40 to 85 ℃)

Cost-effective,
Excellent Quality, Fast Delivery

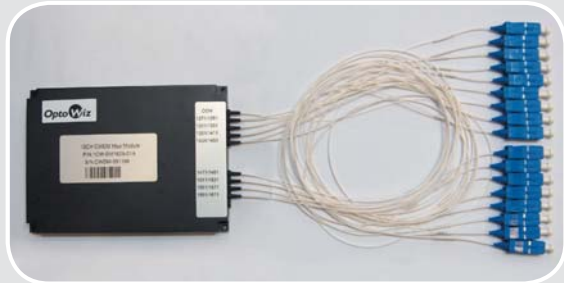
CWDM Device/ Module

Product Feature

- Low Insertion Loss
- High Channel Isolation
- Excellent Thermal Stability
- Epoxy-Free in Optical Path
- RoHS Compliant

Applications

- CWDM System
- Metro /Access Network
- CATV Networ



Parameter		Unit	Specification			
Channel Center Wavelength		nm	1270~1610, 1271~1611			
Max. Center Wavelength. Tolerance		nm	±0.5			
Min. Bandwidth(@0.5dB)		nm	±7.0			
Number of Channels		dB	1ch	4ch	8ch	16ch
Max. Insertion Loss 1		dB	0.6	1.8	2.5	1.83.5
Passband Riffle		dB	0.3			
Isolation	Adjacent Channel	dB	30			
	Non-adjacent Channel	dB	45			
Min. Directivity		dB	50			
Min. Return Loss		dB	45			
Operating / Storage Temperature		°C	-5 - +7 / -40 - +85			
Max. Power Handling		mW	300			

1, without connector loss

2, Packaging Size Available : 5,5Φ×34, 80×60×15, 100×80×10, 125×96×16, 133,7×95,6×12

Ordering Informtion

CWDM-M-xx-yyy-zz-ic-oc cf) CWDM-D-270-BF=1270nm CWDM Device-bare fiber

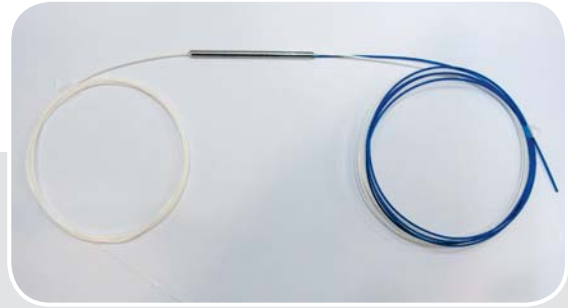
No.of Channel	Staring Channel	Jacket	Input Connector	Output Connector
04	271=1271	09=0.9mm	SP = SC/PC	SP=SC/PC
08	270=1270	20=2.0mm	SA = SC/APC	SA=SC/APC
16	291=1291	30=3.0mm	FP = FC/PC	FP=FC/PC
18	290=1290	BF=0.25mm	FA = FC/APC	FA=FC/APC
Specify	Specify		LP = LC/PC	LP=LC/PC
			LP = LC/PC	LP=LC/PC

Cost-effective,
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Optical Jumper Cords



Optical/WDM Coupler



Optical Jumper Cord

Parameter	Type	Unit	Type	
			Max / Min	Typical
Insertion Loss	SC, FC, ST, MU, LC	dB	0.3	0.15
	MT-RJ, Biconic	dB	0.75	0.4
Return Loss	SPC	dB	40	45
	UPC	dB	50	55
	APC	dB	60	68
Operating/Storage Temperature		°C	-40 ~ +85	

Optical Coupler

Parameter	Unit	Specification			
Operating Wavelength	nm	1310 & 1550			
Wavelength range	nm	±40			
Max. PDL	dB	0.15			
Coupling Ratio	dB	50:50	10:90	5:95	1:99
Max. Insertion Loss*		3.5:3.5	0.8:12.7	0.6:18.5	0.5:24.0
Min. Directivity	dB	50			
Max. Optical Power	mW	500			
Operating / Storage Temperature		°C	-20 ~ +85 / -40 ~ +85		

WDM Coupler

Parameter	Unit	Value		
Operating Wavelength	nm	980 / 1550	1310 / 1550	1480 / 1550
Wavelength range	nm	±10 / 20	±15	±5
Max. PDL	dB	0.1	0.1	0.1
Max. Insertion Loss*	dB	0.3	0.3	0.3
Min. Isolation	dB	18	16	12
Min. Directivity	dB	50		
Max. Optical Power	mW	500		
Operating / Storage Temperature		°C	-20 ~ +85 / -40 ~ +85	

Cost-effective,
Excellent Quality, Fast Delivery

Certificate



ISO9001



TL9000



ISO14001



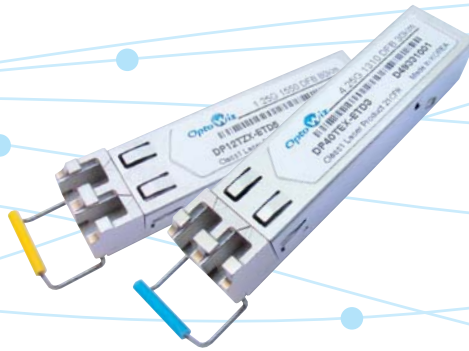
INNO-BIZ



UL



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