

GBIC
SFP
SFP BIDI
SFP CWDM
SFP+
XFP
XENPAK
X2

Optical Transceiver

- Application available for Fast Ethernet, Gigabit Ethernet, 10G Ethernet, SDH/SONET, CWDM and Fiber Channel
- Data rate supported from 155Mbps to 10Gbps
- Hot-pluggable to maximize uptime and simplify serviceability
- SFF-8472 Digital Diagnostics Monitoring Function
- Industrial Temperature is available for option
- Laser Class 1 Product which complies with IEC 60825-1 and 60825-2
- EU RoHS Environmental Requirement available

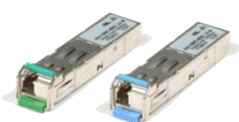
Tainet's wide variety Optical Transceiver modules offer a great flexibility and performance, cost effective and straightforward solutions. With plenty experience in interoperability with 3rd party standard based network equipment, Tainet's Optical Transceivers are able to fulfill enterprises, service providers, telecom operators and SAN providers to build and fulfill their existing and future network expansions.

SFP



- Compliant with Fiber Channel 100-M5-SN-1, 100-M6-SN-1, 200-M5-SN-1, 200-M6-SN-1, 400-M5-SN-1, 400-M6-SN-1 Std.
- Compliant with Fast Ethernet and IEEE 802.3z Gigabit Ethernet Std.
- Compliant with SDH STM-1/4/16, SONET OC-3/12/64 Std.
- Industry Std. Small Form Pluggable (SFP) MSA compatible
- Wavelength: 850nm VCSEL, 1310nm FP, 1550nm DFB
- Bit Rate: 155Mbps, 1.25Gbps, 2.125Gbps, 2.67Gbps, 4.25Gbps
- Transmission distance: 550m, 2km, 10km, 40km, 50km, 70km, 90km, 110km
- Power supply: 3.3V
- Connector: Duplex LC connector
- Class 1 laser product complies with EN60825-1
- DDM (Digital Diagnostic Monitoring) function compliant with SFF 8472

SFP BIDI



- Compliant with Fiber Channel 100-M5-SN-1, 100-M6-SN-1Std.
- Compliant with Fast Ethernet and IEEE 802.3z Gigabit Ethernet Std.
- Compliant with SDH STM-1, SONET OC-3 Std.
- Industry Std. Small Form Pluggable (SFP) MSA compatible
- Wavelength: 1310/1550nm, 1310/1490nm, 1510/1570nm
- Bit Rate: 155Mbps, 1.25Gbps
- Transmission distance: 10km, 20km, 40km, 60km, 80km, 100km, 120km
- Power supply: 3.3/5V (GBIC), 3.3V (SFP)
- Connector: Simplex SC, LC connector
- Class 1 laser product complies with EN60825-1
- DDM (Digital Diagnostic Monitoring) function compliant with SFF 8472

Copper-T



- Compliant with 802.3z 1000Base-T specification
- Die-cast metal housing
- Bit Rate: up to 1.25Gbps
- Compatible with CAT 5 cable in excess of 100M in length
- Power supply: 3.3V
- Connector: RJ-45
- Auto-sense MDI & MDI-S
- SFP 1000Base-X auto negotiation bypass mode
- Support SGMII interface (for 10/100/1000Base-T operation)
- GBIC is also available

CWDM



- Compliant with Fiber Channel Std.
- Compliant with SDH STM-1, SONET OC-3 Std.
- Industry Std. Small Form Pluggable (SFP) MSA compatible
- Wavelength: 1270nm ~ 1610nm
- Bit Rate: 155Mbps, 1.25Gbps, 2.67Gbps multi-rate
- Power Margin: 20dB, 24dB, 27dB, 30dB
- Power supply: 3.3V
- Connector: Duplex LC connector
- Hot pluggable
- Class 1 laser product complies with EN60825-1
- DDM (Digital Diagnostic Monitoring) function compliant with SFF 8472
- GBIC is also available

10G XFP



- Compliant with 10GFC 1200-MX-SN-1 Fiber Channel, Std
- Compliant with IEEE 802.3ae 10GBASE-SW/SR, -LW/LR, -EW/ER, -ZW/ZR Ethernet Std.
- Wavelength: 850nm, 1310nm, 1550nm
- Compliant with XFP Multi-Source Agreement (MSA)
- Connector: Duplex LC connector
- Differential CML inputs and CML outputs
- Differential PECL reference click input
- 1/64 transmitter data rate
- TTL signal detect indicator
- Hot pluggable
- Class 1 laser product complies with EN60825-1
- 8Gbps, 8x Fiber Channel available

10G SFP+



- Compliant with IEEE 802.3ae 10GBASE-SW/SR, -LW/LR Ethernet Std.
- Wavelength: 850nm, 1310nm
- Compliant with SFF 8472 diagnostic monitoring interface
- Connector: Duplex LC connector
- Differential LVPECL inputs and CML outputs
- Differential PECL reference click input
- Power supply: 3.3V
- TTL signal detect indicator
- Hot pluggable
- Class 1 laser product complies with EN60825-1
- 8Gbps, 8x Fiber Channel available



10G

XENPAK



- Compliant with IEEE 802.3ae 10GBASE-SR, -LR, -ER, -ZR Ethernet Std.
- Wavelength: 850nm, 1310nm, 1550nm
- Compliant with XENPAK Multi-Source Agreement (MSA)
- Connector: Duplex SC connector
- Differential CML inputs and CML outputs
- Differential PECL reference click input
- 1/64 transmitter data rate
- TTL signal detect indicator
- Hot pluggable
- Class 1 laser product complies with EN60825-1

GBIC



- Compliant with Gigabit Interface Converters Std. & Fiber channel Std.
- Wavelength: 850nm VCSEL, 1310nm FP, 1550nm DFB
- Bit Rate: up to 1.25Gbps
- Transmission distance: 550m, 2km, 10km, 40km, 70km, 90km, 110km
- Power supply: 3.3V / 5V
- Connector: Duplex SC connector
- Hot pluggable
- Class 1 laser product complies with EN60825-1

SFP Product Line

155Mbps: SDH STM-1 / SONET OC-3 / Fast Ethernet (RoHS Compliant)

Part Number	Model No.	Data Rate (Mbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6A-M02-85-C	SFP-155-02	155	850nm (VCSEL)	MMF	2 km	-4 ~ -10	-24	0 ~ 70	3.3V	Fast Ethernet
TN6A-M02-13-C	SFP-155-02	155	1310nm (LED)	MMF	2 km	-14 ~ -20	-31	0 ~ 70	3.3V	100Base-FX / OC3
TN6A-S30-13-C	SFP-155-30	155	1310nm (FP)	SMF	30 km	-8 ~ -15	-34	0 ~ 70	3.3V	S1.1/IR1/100Base-LX
TN6A-S60-13-C	SFP-155-60	155	1310nm (FP)	SMF	60 km	0 ~ -5	-35	0 ~ 70	3.3V	L1.1/LR1/100Base-EX
TN6A-S80-13-C	SFP-155-80	155	1310nm (DFB)	SMF	80 km	+5 ~ 0	-36	0 ~ 70	3.3V	Extended L1.1
TN6A-S20-15-C	SFP-155-20	155	1550nm (FP)	SMF	20 km	-8 ~ -15	-34	0 ~ 70	3.3V	S1.2/ IR2/Fast Ethernet
TN6A-SA0-15-C	SFP-155-100	155	1550nm (DFB)	SMF	100 km	0 ~ -5	-35	0 ~ 70	3.3V	L1.2/LR2/100Base-ZX
TN6A-SC0-15-C	SFP-155-120	155	1550nm (DFB)	SMF	120 km	+5 ~ 0	-35	0 ~ 70	3.3V	Extended L1.2

1.25Gbps: GbE (Gigabit Ethernet) / 1x Fiber Channel (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6C-MX5-85-C	SFP-SX	1.25	850nm (VCSEL)	MMF	550m	-4 ~ -9.5	-18	0 ~ 70	3.3V	1000Base-SX
TN6C-M02-13-C	SFP-MLX	1.25	1310nm (FP)	MMF	2 km	-1 ~ -9	-19	0 ~ 70	3.3V	1000Base-SX+
TN6C-S10-13-C	SFP-LX	1.25	1310nm (FP)	SMF	10 km	-3 ~ -9.5	-20	0 ~ 70	3.3V	1000Base-LX
TN6C-S20-13-C	SFP-LH20	1.25	1310nm (FP)	SMF	20 km	-2 ~ -8	-23	0 ~ 70	3.3V	
TN6C-S30-13-C	SFP-LH30	1.25	1310nm (DFB)	SMF	30 km	-1 ~ -6	-23	0 ~ 70	3.3V	1000Base-LHX
TN6C-S40-13-C	SFP-LHX	1.25	1310nm (DFB)	SMF	40 km	+1 ~ -4	-24	0 ~ 70	3.3V	1000Base-EX
TN6C-S50-15-C	SFP-XD	1.25	1550nm (DFB)	SMF	50 km	+1 ~ -4	-24	0 ~ 70	3.3V	
TN6C-S70-15-C	SFP-ZX	1.25	1550nm (DFB)	SMF	70 km	+5 ~ 0	-24	0 ~ 70	3.3V	1000Base-ZX
TN6C-S90-15-C	SFP-EZX	1.25	1550nm (DFB)	SMF	90 km	+5 ~ 0	-27	0 ~ 70	3.3V	
TN6C-SB0-15-C	SFP-UZX	1.25	1550nm (DFB)	SMF	110 km	+5 ~ 0	-30	0 ~ 70	3.3V	

- Industrial Temperature is available
- Digital Diagnostic Monitoring (DDM) Function is available
- SFP SC connector is available for BWDM SFP module

BWDM SFP Product Line

155Mbps: SDH STM-1 / SONET OC-3 / Fast Ethernet (RoHS Compliant)

Part Number	Model No.	Data Rate (Mbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6A-W02-B3-C	SFP-155BWDM02-31	155	TX1310/RX1550	MMF	2 km	0 ~ -10	-28	0 ~ 70	3.3V	Fast Ethernet
TN6A-W02-B5-C	SFP-155BWDM02-55	155	TX1550/RX1310	MMF	2 km	0 ~ -10	-28	0 ~ 70	3.3V	Fast Ethernet
TN6A-W20-B3-C	SFP-155BWDM20-31	155	TX1310/RX1550	SMF	20 km	-8 ~ -14	-32	0 ~ 70	3.3V	S1.1/LR1/Fast Ethernet
TN6A-W20-B5-C	SFP-155BWDM20-55	155	TX1550/RX1310	SMF	20 km	-8 ~ -14	-32	0 ~ 70	3.3V	S1.2/LR2/Fast Ethernet
TN6A-W30-B3-C	SFP-155BWDM30-31	155	TX1310/RX1550	SMF	30 km	-3 ~ -9	-32	0 ~ 70	3.3V	S1.1/LR1/Fast Ethernet
TN6A-W30-B5-C	SFP-155BWDM30-55	155	TX1550/RX1310	SMF	30 km	-3 ~ -9	-32	0 ~ 70	3.3V	S1.2/LR2/Fast Ethernet
TN6A-W40-B3-C	SFP-155BWDM40-31	155	TX1310/RX1550	SMF	40 km	0 ~ -8	-34	0 ~ 70	3.3V	L1.1/LR1/Fast Ethernet
TN6A-W40-B5-C	SFP-155BWDM40-55	155	TX1550/RX1310	SMF	40 km	0 ~ -8	-34	0 ~ 70	3.3V	L1.2/LR2/Fast Ethernet
TN6A-W60-B3-C	SFP-155BWDM60-31	155	TX1310/RX1550	SMF	60 km	0 ~ -5	-34	0 ~ 70	3.3V	L1.1/LR1/Fast Ethernet
TN6A-W60-B5-C	SFP-155BWDM60-55	155	TX1550/RX1310	SMF	60 km	0 ~ -5	-34	0 ~ 70	3.3V	L1.2/LR2/Fast Ethernet
TN6A-W80-B3-C	SFP-155BWDM80-31	155	TX1310/RX1550	SMF	80 km	+5 ~ 0	-34	0 ~ 70	3.3V	L1.1/LR1/Fast Ethernet
TN6A-W80-B5-C	SFP-155BWDM80-55	155	TX1550/RX1310	SMF	80 km	0 ~ -5	-35	0 ~ 70	3.3V	L1.2/LR2/Fast Ethernet
TN6A-WA0-51-C	SFP-155BWDM100-51	155	TX1510/RX1570	SMF	100 km	+2 ~ -5	-33	0 ~ 70	3.3V	Fast Ethernet
TN6A-WA0-57-C	SFP-155BWDM100-57	155	TX1570/RX1510	SMF	100 km	+2 ~ -5	-33	0 ~ 70	3.3V	Fast Ethernet
TN6A-WC0-51-C	SFP-155BWDM120-51	155	TX1510/RX1570	SMF	120 km	+3 ~ -3	-35	0 ~ 70	3.3V	Fast Ethernet
TN6A-WC0-57-C	SFP-155BWDM120-57	155	TX1570/RX1510	SMF	120 km	+3 ~ -3	-35	0 ~ 70	3.3V	Fast Ethernet

1.25Gbps: GbE (Gigabit Ethernet) / 1x Fiber Channel (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6C-W10-B3-C	SFP-BWDM-10-31	1.25	TX1310/RX1550	SMF	10 km	-3 ~ -9	-21	0 ~ 70	3.3V	1000Base-LX
TN6C-W10-B5-C	SFP-BWDM-10-55	1.25	TX1550/RX1310	SMF	10 km	-3 ~ -9	-21	0 ~ 70	3.3V	1000Base-LX
TN6C-W20-B3-C	SFP-BWDM-20-31	1.25	TX1310/RX1550	SMF	20 km	-2 ~ -8	-23	0 ~ 70	3.3V	1000Base-LX
TN6C-W20-B5-C	SFP-BWDM-20-55	1.25	TX1550/RX1310	SMF	20 km	-2 ~ -8	-23	0 ~ 70	3.3V	1000Base-LX
TN6C-W40-B3-C	SFP-BWDM-40-31	1.25	TX1310/RX1550	SMF	40 km	+2 ~ -3	-23	0 ~ 70	3.3V	1000Base-EX
TN6C-W40-B5-C	SFP-BWDM-40-55	1.25	TX1550/RX1310	SMF	40 km	+2 ~ -3	-23	0 ~ 70	3.3V	1000Base-EX
TN6C-W60-B3-C	SFP-BWDM-60-31	1.25	TX1310/RX1550	SMF	60 km	+5 ~ 0	-24	0 ~ 70	3.3V	1000Base-EX
TN6C-W60-B5-C	SFP-BWDM-60-55	1.25	TX1550/RX1310	SMF	60 km	+4 ~ -2	-25	0 ~ 70	3.3V	1000Base-EX
TN6C-W80-51-C	SFP-BWDM-80-51	1.25	TX1510/RX1570	SMF	80 km	+3 ~ -2	-26	0 ~ 70	3.3V	1000Base-ZX
TN6C-W80-57-C	SFP-BWDM-80-57	1.25	TX1570/RX1510	SMF	80 km	+3 ~ -2	-26	0 ~ 70	3.3V	1000Base-ZX
TN6C-WC0-51-C	SFP-BWDM-120-51	1.25	TX1510/RX1570	SMF	120 km	+3 ~ -2	-33	0 ~ 70	3.3V	1000Base-ZX
TN6C-WC0-57-C	SFP-BWDM-120-57	1.25	TX1570/RX1510	SMF	120 km	+3 ~ -2	-33	0 ~ 70	3.3V	1000Base-ZX
TN6C-W10-B4-C	SFP-BWDM-10-3149	1.25	TX1310/RX1490	SMF	10 km	-3 ~ -9	-21	0 ~ 70	3.3V	1000Base-BX
TN6C-W10-B9-C	SFP-BWDM-10-49	1.25	TX1490/RX1310	SMF	10 km	-3 ~ -9	-21	0 ~ 70	3.3V	1000Base-BX
TN6C-W20-B4-C	SFP-BWDM-20-3149	1.25	TX1310/RX1490	SMF	20 km	-2 ~ -8	-23	0 ~ 70	3.3V	1000Base-BX
TN6C-W20-B9-C	SFP-BWDM-20-49	1.25	TX1490/RX1310	SMF	20 km	-2 ~ -8	-23	0 ~ 70	3.3V	1000Base-BX
TN6C-W40-B4-C	SFP-BWDM-40-3149	1.25	TX1310/RX1490	SMF	40 km	+2 ~ -3	-23	0 ~ 70	3.3V	1000Base-BX
TN6C-W40-B9-C	SFP-BWDM-40-49	1.25	TX1490/RX1310	SMF	40 km	+2 ~ -3	-23	0 ~ 70	3.3V	1000Base-BX
TN6C-W60-B4-C	SFP-BWDM-60-3149	1.25	TX1310/RX1490	SMF	60 km	+5 ~ 0	-24	0 ~ 70	3.3V	1000Base-BX
TN6C-W60-B9-C	SFP-BWDM-60-49	1.25	TX1490/RX1310	SMF	60 km	+4 ~ -2	-25	0 ~ 70	3.3V	1000Base-BX

- Industrial Temperature is available
- Digital Diagnostic Monitoring (DDM) Function is available
- SFP SC connector is available for BWDM SFP module

Copper SFP Product Line

155Mbps: SDH STM-1 / SONET OC-3 / Fast Ethernet (RoHS Compliant)

Part Number	Model No.	Data Rate (Mbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6A-TX1-00-C	SFP-10/100-TX	155	---	Copper	100 m	---	---	0 ~ 70	3.3V	
TN6A-TX1-00-CM	SFP-10/100-TX	155	---	Copper	100 m	---	---	0 ~ 70	3.3V	RX_LOS enable

1.25Gbps: GbE (Gigabit Ethernet) (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN5C-TX1-00-C1	GBIC-T-A	1.25	---	Copper	100 m	---	---	0 ~ 70	3.3 / 5V	Auto Negotiation
TN5C-TX1-00-C2	GBIC-T-F	1.25	---	Copper	100 m	---	---	0 ~ 70	3.3 / 5V	Full Duplex
TN6C-TX1-00-C1	SFP-T	1.25	---	Copper	100 m	---	---	0 ~ 70	3.3V	100/1000
TN6C-TX1-00-C2	SFP-T	1.25	---	Copper	100 m	---	---	0 ~ 70	3.3V	1000
TN6C-TX1-00-CM	SFP-T	1.25	---	Copper	100 m	---	---	0 ~ 70	3.3V	RX_LOS enable

- Industrial Temperature is available

CWDM SFP Product Line

155Mbps: SDH STM-1 / SONET OC-3 / Fast Ethernet (RoHS Compliant)

Part Number	Model No.	Data Rate (Mbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6A-C17-yy-C	SFP-155-CWDM-17-yy	155	1270 ~ 1610nm	SMF	17 dB	0 ~ -15	-32	0 ~ 70	3.3V	
TN6A-C31-yy-C	SFP-155-CWDM-31-yy	155	1270 ~ 1610nm	SMF	31 dB	+3 ~ -4	-35	0 ~ 70	3.3V	
TN6A-C35-yy-C	SFP-155-CWDM-35-yy	155	1270 ~ 1610nm	SMF	35 dB	+5 ~ 0	-35	0 ~ 70	3.3V	
TN6A-C17-yy-CM	SFP-155-CWDM-17-yy-DM	155	1270 ~ 1610nm	SMF	17 dB	0 ~ -15	-32	0 ~ 70	3.3V	DDM
TN6A-C30-yy-CM	SFP-155-CWDM-30-yy-DM	155	1270 ~ 1610nm	SMF	30 dB	0 ~ -5	-35	0 ~ 70	3.3V	DDM
TN6A-C35-yy-CM	SFP-155-CWDM-35-yy-DM	155	1270 ~ 1610nm	SMF	35 dB	+5 ~ 0	-35	0 ~ 70	3.3V	DDM

1.25Gbps: GbE (Gigabit Ethernet) / 1x Fiber Channel (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN6C-C20-yy-C	SFP-CWDM-20-yy	1.25	1270 ~ 1610nm	SMF	20 dB	+1 ~ -4	-24	0 ~ 70	3.3V	
TN6C-C24-yy-C	SFP-CWDM-24-yy	1.25	1270 ~ 1610nm	SMF	24 dB	+5 ~ 0	-24	0 ~ 70	3.3V	
TN6C-C27-yy-C	SFP-CWDM-27-yy	1.25	1270 ~ 1610nm	SMF	27 dB	+5 ~ 0	-27	0 ~ 70	3.3V	
TN6C-C30-yy-C	SFP-CWDM-30-yy	1.25	1270 ~ 1610nm	SMF	30 dB	+5 ~ 0	-30	0 ~ 70	3.3V	
TN6C-C32-yy-C	SFP-CWDM-32-yy	1.25	1270 ~ 1610nm	SMF	32 dB	+5 ~ 0	-32	0 ~ 70	3.3V	
TN6C-C20-yy-CM	SFP-CWDM-20-yy-DM	1.25	1270 ~ 1610nm	SMF	20 dB	+1 ~ -4	-24	0 ~ 70	3.3V	DDM
TN6C-C24-yy-CM	SFP-CWDM-24-yy-DM	1.25	1270 ~ 1610nm	SMF	24 dB	+5 ~ 0	-24	0 ~ 70	3.3V	DDM
TN6C-C27-yy-CM	SFP-CWDM-27-yy-DM	1.25	1270 ~ 1610nm	SMF	27 dB	+5 ~ 0	-27	0 ~ 70	3.3V	DDM
TN6C-C30-yy-CM	SFP-CWDM-30-yy-DM	1.25	1270 ~ 1610nm	SMF	30 dB	+5 ~ 0	-30	0 ~ 70	3.3V	DDM
TN6C-C32-yy-CM	SFP-CWDM-32-yy-DM	1.25	1270 ~ 1610nm	SMF	32 dB	+5 ~ 0	-32	0 ~ 70	3.3V	DDM

- CWDM Wavelength
 yy: 27 = 1270nm, 29 = 1290nm, 31 = 1310nm, 33 = 1330nm, 35 = 1350nm, 37 = 1370nm, 39 = 1390nm, 41 = 1410nm, 43 = 1430nm,
 yy: 45 = 1450nm, 47 = 1470nm, 49 = 1490nm, 51 = 1510nm, 53 = 1530nm, 55 = 1550nm, 57 = 1570nm, 59 = 1590nm, 61 = 1610nm.



10G Product Line

8Gbps : 8x Fiber Channel (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN7H-MX3-85-C	XFP-8G-SR	8	850nm	LC	300m*	-1.5~-8.2	-12.5	0 ~ 70	3.3V	8G-SR/SW
TN7H-S10-13-C	XFP-8G-LR	8	1310nm	LC	10km	0 ~ -8	-13.8	0 ~ 70	3.3V	8G-LR/LW
TN7H-S40-15-C	XFP-8G-ER	8	1550nm	LC	40km	+5 ~ +1	-16	0 ~ 70	3.3V	8G-ER/EW
TN7H-S80-15-C	XFP-8G-ZR	8	1550nm	LC	80km	+4 ~ 0	-23	0 ~ 70	3.3V	8G-ZR/ZW
TNAH-MX1-85-C	SFP+ 8G-SR	8	850nm	LC	150m*	-2~-8.2	-12.5	0 ~ 70	3.3V	8G-SR/SW
TNAH-S10-13-C	SFP+ 8G-LR	8	1310nm	LC	10km	0 ~ -8	-15	0 ~ 70	3.3V	8G-LR/LW

10Gbps : XFP (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN7K-MX3-85-C	XFP-SR	10	850nm	LC	300m**	-1 ~ -7.1	-9.9	0 ~ 70	3.3V	10G-SR/SW
TN7K-S10-13-C	XFP-LR	10	1310nm	LC	10km	+0.5 ~ -6	-14.4	0 ~ 70	3.3V	10G-LR/LW
TN7K-S40-15-C	XFP-ER	10	1550nm	LC	40km	+2 ~ -1	-16	0 ~ 70	3.3V	10G-ER/EW
TN7K-S80-15-C	XFP-ZR	10	1550nm	LC	80km	+4 ~ 0	-23	0 ~ 70	3.3V	10G-ZR/ZW
TN7K-TX1-00-C	XFP-CX4	10	---	Copper	15 m	---	---	0 ~ 70	3.3V	

10Gbps : SFP+ (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TNAK-MX3-85-C	SFP+ SR	10	850nm	LC	300m**	-1 ~ -7.1	-9.9	-10 ~ 70	3.3V	10G-SR/SW
TNAK-S10-13-C	SFP+ LR	10	1310nm	LC	10km	+0.5 ~ -6	-14.4	-10 ~ 70	3.3V	10G-LR/LW

10Gbps : XENPAK (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN8K-MX3-85-C	XENPAK-SR	10	850nm	SC	300m**	> -4.3	-7.5	0 ~ 70	3.3 / 5V	10G-SR/SW
TN8K-S10-13-C	XENPAK-LR	10	1310nm	SC	10km	> -5.2	-10.3	0 ~ 70	3.3 / 5V	10G-LR/LW
TN8K-S40-15-C	XENPAK-ER	10	1550nm	SC	40km	> -1.7	-11.3	0 ~ 70	3.3 / 5V	10G-ER/EW
TN8K-S80-15-C	XENPAK-ZR	10	1550nm	SC	80km	> 0	-24	0 ~ 70	3.3 / 5V	10G-ZR/ZW

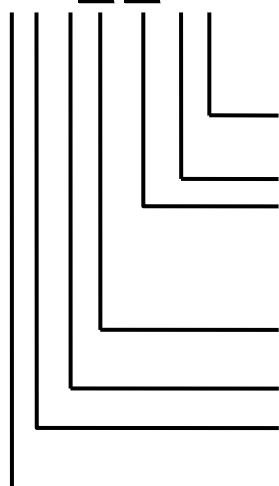
10Gbps : X2 (RoHS Compliant)

Part Number	Model No.	Data Rate (Gbps)	Wavelength/ Light Source	Media Type	Reach	TX Power (dBm)	RX Sens (dBm)	Temp. (°C)	Voltage	Note
TN9K-MX3-85-C	X2-SR	10	850nm	SC	300m**	> -4.3	-7.5	0 ~ 70	3.3 / 5V	10G-SR/SW
TN9K-S10-13-C	X2-LR	10	1310nm	SC	10km	> -5.2	-10.3	0 ~ 70	3.3 / 5V	10G-LR/LW
TN9K-S40-15-C	X2-ER	10	1550nm	SC	40km	> -1.7	-11.3	0 ~ 70	3.3 / 5V	10G-ER/EW
TN9K-S80-15-C	X2-ZR	10	1550nm	SC	80km	> 0	-24	0 ~ 70	3.3 / 5V	10G-ZR/ZW

- * : 21m/OM1 Fiber; 50m/OM2 Fiber; 150m/OM3 Fiber
- ** : 33m/OM1 Fiber; 82m/OM2 Fiber; 300m/OM3 Fiber
- Industrial Temperature is available

Ordering Information:

TN6C-S10-13-CM



- Additional Feature:** Please leave blank here if no any additional feature required.
- Operating Temp.:** C=Commercial purpose (0~70°C); I= Industrial grade (extended temperature)
- Wavelength:** Normal: 85=850nm; 13=1310nm; 15=1550nm; 00=Copper T (RJ-45)
CWDM: 27=1270nm; 47=1470nm; 61=1610nm
BWDM: B3=Tx1310/Rx1550; B5=Tx1550/Rx1310; B4=Tx1310/Rx1490; B9=Tx1490/Rx1310; 51=Tx1510/Rx1570; 57=Tx1570/Rx1510; 27=Tx1270/Rx1330; 33=Tx1330/Rx1270
- Reach:** X1=under 150m; X2=220m; X3=300m; X5=550m; 02=2km; 10=10km; 70=70km; A0=100km; B0=110km; C0=120km; CWDM: Power Margin (dB)
- Type:** S=Single-mode; M=Multi-mode; W=BWDM; C=CWDM; T=Copper-T (RJ-45)
- Data Rate:** A=155Mb/s; B=622Mb/s; C=1.25Gb/s; D=2.125Gb/s; E=2.5Gb/s; G=3.1Gb/s; F=4.25Gb/s; H=8.5Gb/s; K=10Gb/s;
- Product Code:** 1~4=(Reserved); 5=GBIC; 6=SFP-LC; 7=XFP; 8=XENPAK; 9=X2; A=SFP+; P=SFP-SC; Q=SFP-MTRJ

