

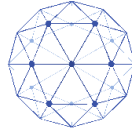


3K SFP ONU STICK PRODUCT FEATURES

- Support ITU-T G.984 GPON Networks application
- Support ITU-T G.988 ONU management and control interface (OMCI) specification
- Support Dying Gasp function (optional)
- Configurable 1G or 2.5G UNI
- Single fiber bi-directional data links with asymmetric 1.244Gbps Tx and 2.488Gbps Rx
- 1310nm burst-mode transmitter with DFB laser
- 1490nm continuous-mode receiver with APD-TIA
- 2-wire interface for integrated digital diagnostic Monitoring
- SFP package with SC/UPC or SC/APC receptacle optical interface
- Single +3.3V power supply
- Operation case temperature -40~85°C for industrial and 0~70°C for commercial

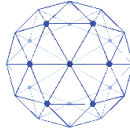
Parameter	Unit	Min.	Typical	Max.
Storage Temperature	°C	-		8
Operating Relative Humidity	%	5		85
Operating Case Temp for C-temp	°C	0		70
Operating Case Temp for I-temp	°C	-		8
Power Supply Voltage	V	3.15	3	3.45
Power Consumption	W			2
Bit Rate for Tx	Gbps	1.2		
Bit Rate for Rx	Gbps	2.4		

Parameter	Unit	Min.	Typical	Max.
Transmitter				
TX Central Wavelength	nm	1290	1310	1330
Spectral Width (-20dB)	n			1
Side Mode Suppression Ratio (SMSR)	d B	3 0		
Mean Launched Power	dBm	0.5		5



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Mean Launched Power (TX Off)		dBm			-45
Extinction Ratio		d	10		
Optical Return Loss Tolerance		dB	-15		
Transmitter and dispersion Penalty		d			1
Transmitter Mask (PRBS ²³ -	Compliant With ITU-T G984.2				
Receiver					
Receive Wavelength		n	1480	1490	1500
Sensitivity (PRBS ²³ -1@2.488G, ER=8.2, BER<10 ⁻¹⁰)		dBm			-28
Overload (PRBS ²³ -1@2.488G, ER=8.2, BER<10 ⁻¹⁰)		dBm	- 8		
Loss of signal De-assert Level		dBm			-
Loss of signal assert Level		dBm	-		
LOS Hysteresis		dB	0		6
WDM Filter isolation to 1441	n m	d B	2 5		
WDM Filter isolation to 1250	n m	d B	3 6		
Electrical Interface Characteristics					
Data Input Swing Differential/TX		m	2	-	2000
Data Output Swing Differential/RX		mV	4		1600
Date Differential Impedance		Ω	90	100	1
LVTTL Output High		V	2.		V _{cc}
LVTTL Output Low		V	0		0.4
LVTTL Input High		V	2.0		V _{cc} +0.3
LVTTL Input Low		V	0		0.8
Timing Characteristics					
Turn On Time at Burst mode (T _{ON})		n			12.8
Turn Off Time at Burst mode (T _{OFF})		ns			12.8
TX-SD Assert Time (T _{TXSD_ON})		n			100
TX-SD De-assert Time (T _{TXSD_OFF})		ns			100
LOS Assert Time (T _{LOSA})		us			1
LOS De-assert Time (T _{LOSD})		us			100



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MECHANICAL DIAGRAM

