



3K SFP + 10G-1SM-1270NM-20LC

3K SFP + 10G-1SM-1330NM-20LC

Features :

- Support 10GBASE-LR/10GBASE-LW/10G Fiber Channel application
- Compliant to SFP+ Electrical MSA SFF-8431
- Compliant to SFP+ Mechanical MSA SFF-8432
- Multi rate of up to 11.3Gbps
- Transmission distance up to 10km and 40KM
- +3.3V single power supply
- Low power consumption
- Operating case temp : 0~+70°C
- RoHS 6/6 compliant

Absolute Maximum Ratings

Table 1- Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Supply Voltage	V _{CC3}	-0.5	-	+3.6	V	
Storage Temperature	T _s	0	-	+70	°C	
Operating Humidity	RH	+5	-	+95	%	

Recommended Operating Conditions

Table 2- Recommended operating Conditions

Parameter	Symbol	Min.	Typical	Max.	Unit	Notes
Operating Case Temperature	T _C	0	-	+70	°C	
Power Supply Voltage	V _{CC}	3.14	3.3	3.47	V	
Power Supply Current	I _{CC}	-	-	300	mA	
Power Dissipation	P _d	-	-	1.0	W	
Bit Rate	BR	-	10.3125	-	Gbps	



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Optical Characteristics

Table 3-Optical Characteristics

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Parameter	Symbol	Unit	Min.	Typ.	Max.	Notes
Optical transmitter Characteristics						
Bit Rate	BR	Gbps	9.953	10.3125	11.3	
Center Wavelength Range	λ_c	nm	1250	1270	1290	3K SFP +
			1310	1330	1350	3K SFP +
Average Launch power Tx_off	Poff	dBm	-	-	-45	



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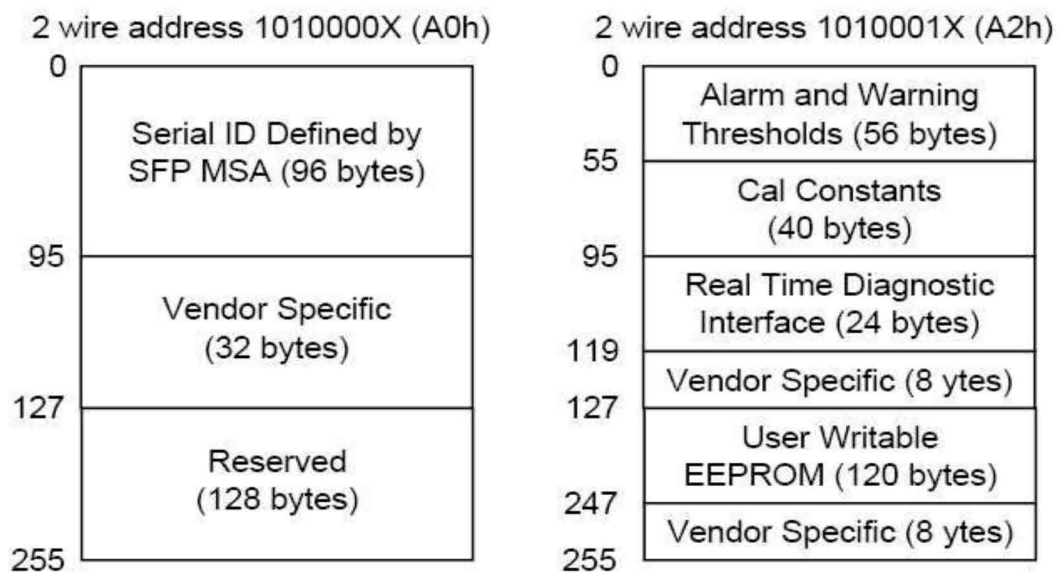
Launch Optical Power	P ₀	dBm	-7.5	-	0	1
Extinction Ratio	ER	dB	3.5	-	-	
Jitter P-P	JP	ps	-	-	27	
Jitter RMS	JR	ps	-	-	5	
Optical Rise/Fall time	Tr/tf	ps	-	-	100	
Eye Diagram	Compliant With IEEE 802.3-2005					
Optical receiver Characteristics						
Bit Rate	BR	Gbps	9.953	10.3125	11.3	
Receiver Sensitivity	RS	dBm	-	-	-14	2
Overload Input Optical Power	P _{IN}	dBm	0	-	-	2
Center Wavelength Range	λ_c	nm	1310	1330	1350	3K SFP +
			1250	1270	1290	3K SFP +
LOS	LOS _D	dBm	-	-	-15	
	LOS _A		-24.5	-	-	
LOS Hysteresis		dB	0.5	-	-	



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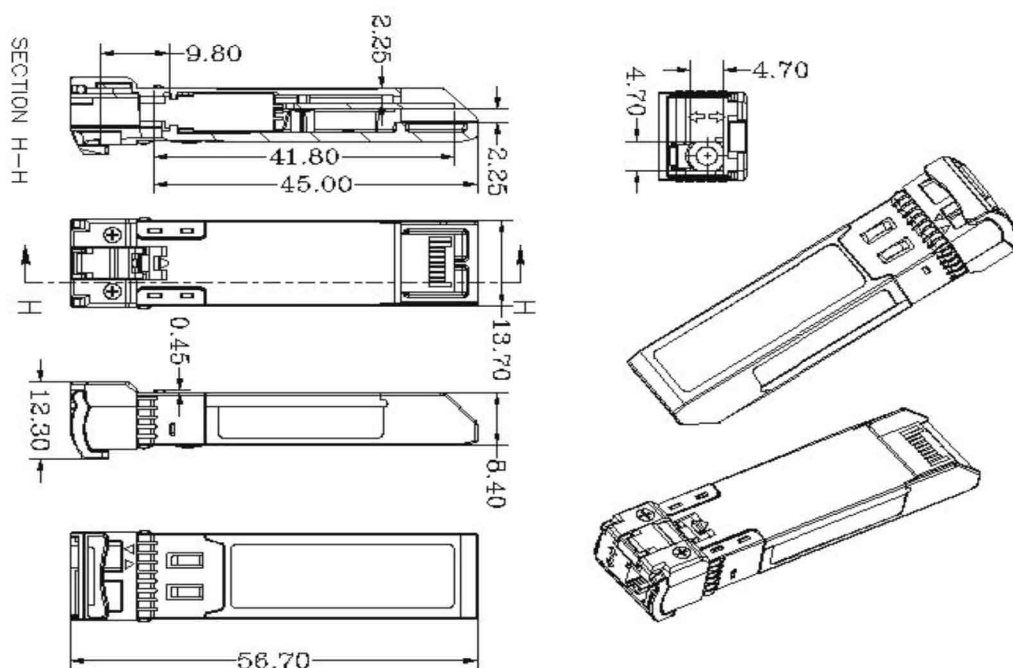
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Digital Diagnostic Memory Map



Memory Map

Mechanical Diagram





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Order Information

Table 4-Order Information

Part No.	Bit Rate (Gbps)	Laser TX(nm)	Laser RX(nm)	Fiber Type	Distance	Connector
3K SFP +	10.3125	1270	1330	SMF	20KM	Simplex LC Receptacle
3K SFP +	10.3125	1330	1270	SMF	20KM	Simplex LC Receptacle

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