



E1B35(53)03-3(5) SC20

1X9

155M Single Fiber Bi-direction 1x9 Single fiber Transceiver (20km)

- > 1X9 DIP plastic package with duplex SC receptacle
- Single Fiber Bi-direction;
- LVPECL logic interface, +3.3V/5.0V single power supply
- 1310nm FP Laser,
- InGaAs/InP PIN photodiode receiver
- 40km transmission with SMF
- > Suitable used in the full-duplex transmission application
- > Full compliant with ITU-T G.957, G.958 specification
- SONET/SDH OC-3/STM-1 compliant





Applications

- Long haul Ethernet transmission
- ➢ SONET/SDH/ATM

Description

T1310-R1550-155M-20km transceiver is a series single mode SC Single fiber Bi-direction 1x9 155Mbit/s module designed for optical data communication applications. It is electrically compatible with the MSA transceiver. The transmitter section incorporates an advanced FP laser and driver IC with temperature compensation and automatic power control circuit. The receiver section incorporates an efficient InGaAs/InP PIN photodiode and Trans-impedance amplifier with AGC for wide dynamic range. The transceiver has excellent reliability.

T1310-R1550-155M-20km series transceiver is used for Long haul Ethernet transmission or SONET/SDH/ATM. It is fully compliant with ITU-T G.957, G.958 specification. a 15km to 80km point-to-point solution is suitable to use in the SONET/SDH and 10/100 Ethernet full-duplex transmission system.

Performance specifications

Operation Environment (3.3V/5V)

Parameter	Symbol	Minimum	Maximum	Units
Supply Voltage	Vcc	3.1/4.8	3.6 /5.5	V
Ambient operating Temperature	Тор	0	+70	°C
RL of connector	RL	20	-	dB

Absolute Maximum Ratings

Parameter	Symbol	Minimum	Maximum	Units
Storage Temperature	Tst	-40	+85	°C
Operating Temperature	Тор	0	70	°C
Supply Voltage	Vcc	0	6	V
Input voltage	Vin	GND	Vcc	
Lead Soldering Temperature & Time		240/10		°C/s

Transmitter Section

(Ambient Operating Temperature 0°C to +70°C, Vcc =3.1to 3.5V)

Parameter	Symbol	Min. Typ.				Max.	Units
Data rate				10	-	155	Mb/s
Center Wavelength		λο		1270	1310	1350	nm
Output Spectral wid	th	$\Delta \lambda$		-	-	2	nm
Average Optical Out Power	tput	P0		-12	-8	-5	dBm
Extinction Ratio		Er		-	10	-	dB
Power Supply Curre	ent	loc		-	70	-	mA
Optical Eye Diagran	n	ITU–T G.957 Recommendation					

Receiver Section

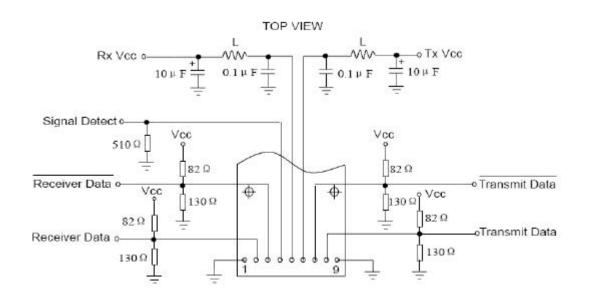
(Ambient Operating Temperature 0°C to +70°C, Vcc =3.1to 3.5V)

		-			
Parameter	Symbol	Min.	Тур.	Max.	unit
Wavelength	λ	1510	1550	1570	nm
Vcc Current	lcc	-	70	-	mA
Maximum Input Power	P _{max}	0	-	-	dBm
Data rate		10	-	155	Mb/s
Receiver Sensitivity	P_{min}	-	-35	-33	dBm
Signal Detect Thresholds	Pth	-41	_	- 36	dBm

Pin Description

Receiver Signal Ground Receiver Data Out Receiver Data Out Bar Signal Detect Receiver Power Supply Transmitter Power Supply Transmitter Data In Bar Transmitter Data In Transmitter Ground	 ○ 1 (Rx VEE) ○ 2 (RD+) ○ 3 (RD-) ○ 4 (SD) ○ 5 (Rx VCC) ○ 6 (Tx VCC) ○ 6 (Tx VCC) ○ 7 (TD-) ○ 8 (TD+) ○ 9 (Tx VEE) 	TOP VIEW	O N/C N/C	TX/RX	
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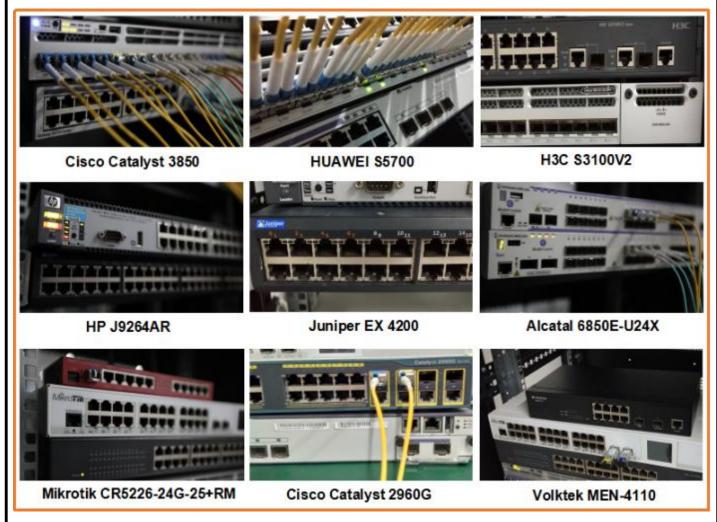
Applycation Circuit



Compatibility Test

In order to ensure the product compatibility, our products will be tested on the switch before shipment. Our modules can compatible with many mainstream brand switches, such as Cisco, Juniper, Extreme, Brocade, IBM, H3C, HP, Huawei, D-Link, Mikrotik, ZTE, TP-Link...

Our test equipment: VOLKTEK MEN-4110, HP 2530-8G, CRS226-24G-25+RM, Catalyst 2960G Series, Catalyst 3850 XS 10G SFP+, Catalyst 3750-E Series, HUAWEI S5700Series, H3C S3100V2 Series, Juniper-EX4200, etc.



Product Production Process

Quality Assurance

Continuous introduction of new equipment, produced by strict standards, strict quality inspection, to guarantee the high quality standard of each product.



Product Initial Test

Switch Testing

Product Final Test

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