

rBT2250

25G Burst Mode Bit Error Ratio Tester Version 2.0



Product Description

rBT2250 is a burst bit error ratio tester to evaluate 10G/25G/50G OLT (Optical Line Terminal) receiver performance in burst mode. rBT2250 provides 2 independent pattern generator/error detector channels, and provide laser enable/ receiver reset /RSSI trigger signals and SD signal detect function. With Build-in burst clock data recovery, clock would be recovered from the burst data every time, it is a must in long fiber testing. The high integration multi-channel design of rBT2250 make it the best choice for burst bit error ratio analysis.

Key Features

- Burst Mode: Different tests for 10G or 25G PON OLT, can be run without double investment by using high-quality burst signals generation and analysis of 9.953Gbps/10.3125Gbps/12.4416Gbps / 24.8832Gbps and 25.78125Gbps.
- Multichannel Configuration: Integrated 2 in-dependent Channels, which support maximum 2 Data output/input channels with 2 Enable Control & 2 Reset Control channel at the same time.
- PON Dedicated Software: Dedicated software supports easy signal timing setting and editing of PON data.
- Control Signal Output: Laser enable control and receiver reset control channel make it very easy to setup OLT testing platform. rBT2250 is the first integrated BERT which support Double Reset control channels which meet the latest 25G PON application requirement.
- Support both continuous or burst BER testing.
- Burst CDR: rBT2250 has integrated burst clock data recover, which make it can do BER testing through long fiber transmission

Technical Specification



Pattern Generator Specification

Tattern Cenera	tor specification	
Output	Differential	AC Coupling, 100 Q
		Termination
	Single End	AC Coupling, 50 Q
		Termination
Output	300-600mVpp	Differential
Amplitude		Differential
Output	2 in-depended Burst Channels	Burst/Continuous mode
Output Channel	1 Continuous Channel(25Gbps NRZ) or	Carling
	2 Continuous Channels (50Gbps NRZ/PAM4)	Continuous mode
Pattern	PRBS7, 15, 23, 31, SSPR, User Defined, CID pattern	
Support Data	0.052Chma 10.2125Chma 12.441CChma 24.6	25 70125Chma
Rate	9.953Gbps, 10.3125Gbps, 12.4416Gbps, 24.8832Gbps, 25.78125Gbps	
Rise Time	<20ps	20%~80%
Jitter	<1 ps	RMS
Pre-emphasis	Support Pre-Cursor & Post Cursor adjustment to	minimize testing fixture or RF
Fre-emphasis	cable insertion loss	
Pattern	Each Channel can be set preamble/payload/guard-time pattern sequence in-	
Sequence	dependently	
CID Dottown	Support add continuous "1", continuous "0" pattern as length from 64-128	
CID Pattern	bits(adjustable)	
Connector	2.92mm(Female)	



-	, то	
Clock Output	1/2、1/4、1/8、1/16 divided clock output	
Laser Enable	Support 2 laser enable control channel outputs(each enable control channel is	
Channel	synchronized with Pattern Generator channel)	
Enable Control	TTL Level, support selection as High/Low and Continuous High/Low	
Level		
Reset Channel	Support 2 reset channel outputs (reset channel is synchronized with error	
	detector channel)	
Reset Width	Adjustable	
Reset Position	Adjustable, support Auto-Range to find the right reset position	
RSSI Trigger	Support RSSI trigger (adjustable for RSSI trigger pulse width/repeat frequency	
Output	and position)	

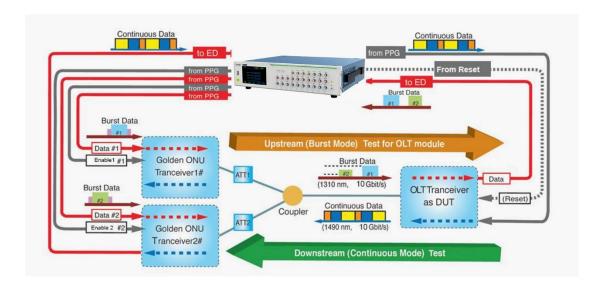
Error bits detector indicators

Input Type	Differential/Single end
Data Rate	9.953Gbps, 10.3125Gbps, 12.4416Gbps, 24.8832Gbps, 25.78125Gbps
Impedance	100Ω
Input Amplitude Range	100~800mVpp
Sensitivity	>100mV
Clock Mode	Internal burst clock data recovery unit
Synchronization	Auto-synchronization and Auto-range
Connector	2.92 mm(Female)

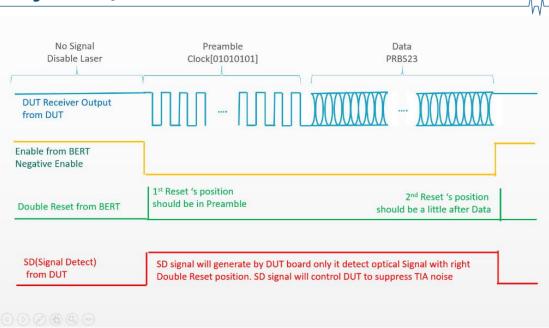
General indicators

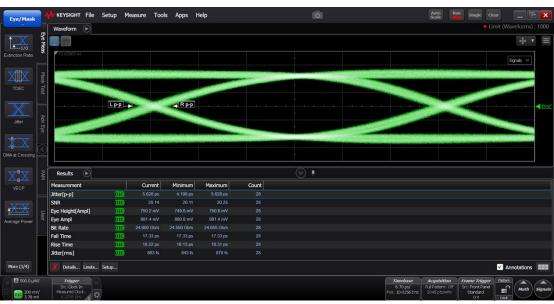


Operation	Temperature: 0°C ~ +55°
	Humidity: 30 %~ 80% non-condensing
Storage	Temperature: -30 °C ~ +70 °C; Humidity: 10 % ~ 90 % non-condensing
Altitude	Operation:0 m ~ 2000 m, Storage:0 m ~ 4600 m
Power	LINE: 100-240VAC, 50/60Hz, 250W
Warm-up time	10 minutes
Dimensions(mm)	395±0.5*440±0.8*112±0.3 (with foot pad/handle)
Weight	Net weight: 8.2kg (rBT2250-B22-CM50)



Semight www.semight.com









Ordering Information

Host		
rBT2250	25G Burst BERT Host	
Options		
CN25	25Gb/s NRZ Continuous Channel	
CN50	50Gb/s NRZ Continuous Channel	
CM50	50Gb/s NRZ & PAM4 Continuous Channel	
B11	1x25Gb/s Burst PPG + 1x25Gb/s Burst ED	
B21	2x25Gb/s Burst PPG + 1x25Gb/s Burst ED	
B22	2x25Gb/s Burst PPG + 2x25Gb/s Burst ED	

Contact us

Mail

sales@semight.com

Address

No. 1508, Xiangjiang Road, Suzhou New District (SND), Jiangsu, China

Web

Visit www.semight.com for more information.

 ${}^{\star}\mathsf{This}$ information is subject to change without notice.