

# MBT3210

4 × 10G Bit Error Ratio Tester

Version 6.6



## Product Description

Semight Instruments MBT3210 is a high-performance bit error ratio tester with wide range data rate from 350 Mbps to 15 Gbps, build-in PRBS (Pseudo-Random Binary Sequence) pattern generator, clock data recovery and PRBS error analyzer, widely used in Ethernet/Fiber Channel and SONET Network transceiver /module testing.

## Key Features

- Support 350Mbps to 15Gbps standard test rate, customizable;
- The four channels can be tested independently or synchronously;
- Output amplitude can be adjusted: 4 channel output amplitude independent debugging;
- Support all Industry PRBS pattern : 7,9, 15, 23, 31;
- Provide half-rate clock (high speed) and sub-trigger signal output (low speed);
- Built-in clock recovery;
- Support polarity reversal of data output;
- Support remote control, provide DLL dynamic link library interface or API, and facilitate control through LabVIEW, C #, VEE and other software;

## Applications

- High speed Serdes test;
- 40G QSFP line card, 10G SFP+ line card;
- InfiniBand, USB, HDMI, SAS/SATA, 10GbE, 40GbE, 100GbE, Ethernet, PON, Parallel Optics, etc.  
10Gbase-KR/40GBase-KR4/CR4/SR4, 100GBASE-CR10/SR10;
- Active optical cable (AOC), direct connection cable (DAC), SFP+, zQSFP, QSFP+, CFP/2, CXP and QDR tests;
- Electro optical transceiver module test;

- DVT (Design Validation Test) of telecommunication/data communication, devices/modules and systems;

## Technical Specification

Pattern Generator	Output type	Differential	AC Coupling; 100Ω Termination
		Single ended	AC Coupling; 50Ω Termination
Technical Indicators	Output amplitude	100~1200 mVp-p	Differential
	Rise time	30 ps	20%~80%
	Jitter	1.5 ps	(RMS)Jitter
		9 ps	Peak to peak Jitter
Clock Channel	The front panel provides half rate differential clock and frequency division trigger signal output		
Bit Error Detection Channel	Input type	Differential/Single- ended	
	Impedance	100 Ω	
	Input amplitude	800 mVp-p	
	Sensitivity	<100 mV	
	Clock mode	Built-in clock recovery	
	Synchronization	Automatic phase synchronization by level	
	Connector	2.92mm female, 50Ω	
General Indicators	Work	0°C~+55°C, 30%~80% Relative Humidity with no condensation	
	Storage	-30°C~70°C, 10%~90% Relative Humidity with	

		no condensation
	Altitude	Operation: 0m to 2000m, Storage: 0m to 4600m
	Power supply	LINE: 100-240VAC, 50/60Hz, 250W FUSE: T2AL 250 VAC
	Dimensions (mm)	438*214*105 (with foot pad/handle)
	Weight	Net weight 3.7 kg

## Ordering Information

MBT3210	350 Mbps ~15 Gbps Bit Error Ratio Tester
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## Contact us

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\*This information is subject to change without notice.