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Test & Measurement Solutions Selection Guide



SSB32J



PCB12500

Bit Error Ratio Testers

Model Number	Description	Applications	Operating Range
SSB32 Controller: SSB16000 Pattern generator: PG32 Error detector: ED32	Stressed serial BER tester	<ul style="list-style-type: none"> 100GbE (4x25 Gb/s and 4x28 Gb/s) High-speed SerDes testing InfiniBand EDR Optical serial data applications Jitter tolerance testing and receiver characterization 	3-32 Gb/s
SSB32J Controller: SSB16000J Pattern generator: PG32 Error detector: ED32	Stressed serial BER tester with multi-tone jitter injection		3-32 Gb/s
SSB17 Controller: SSB16000 Pattern generator: PG17 Error detector: ED17	Stressed serial BER tester	<ul style="list-style-type: none"> 16x Fibre Channel (16GFC) InfiniBand FDR Standards testing (PCIe, USB, SATA, etc.) High-speed SerDes testing Transceiver testing (SFP/SFP+, XFP) 	3-17 Gb/s
SSB17J Controller: SSB16000J Pattern generator: PG17 Error detector: ED17	Stressed serial BER tester with multi-tone jitter injection		3-17 Gb/s
PCB12500 Controller: PCB12500 and any combination of the following: Pattern generator: TG5P1A Pattern generator with 4-tap de-emphasis: TG7P1A Error detector: TR2P1A Clock doubler: TG3C1A	Parallel channel BER tester	<ul style="list-style-type: none"> Crosstalk susceptibility testing Parallel jitter tolerance testing Transceiver testing (QSFP/QSFP+, CFP, CXP) Communication IC testing Active optical cables 	1.5-12.5 Gb/s
SB40B Controller: PCB12500 Error detector: TR2P1A Clock doubler: TG3C1A PRBS generator: TG1P4A Demultiplexer: TR1D4A	40G BER test system	<ul style="list-style-type: none"> Device characterization, R&D testing, production testing, and general lab use 40G DPSK demodulator testing 4x28 Gb/s DP-QPSK testing 2x22 Gb/s QPSK testing 	22-44 Gb/s
SB10 BERT: TG1B1-A Clock source: TG1C1-A	10G BER test system	<ul style="list-style-type: none"> Characterization and production test of components and low-level systems Standards testing (PCIe, InfiniBand, SATA, etc.) Transceiver testing (SFP/SFP+, XFP) 	0.5-12.5 Gb/s
TG1B1-A	10G BER tester	<ul style="list-style-type: none"> Automated production line testing, manufacturing, and R&D lab use 	0.5-12.5 Gb/s

Affordability without compromise



PPG12500



TG1P4A



TG2P1A

Pattern Generators

Model Number	Description	Applications	Operating Range
SPG12 Pattern generator: PPG12500 Clock synthesizer: SCS16000	Stressed programmable pattern generator	<ul style="list-style-type: none"> Jitter tolerance and receiver characterization Telecom and datacom compliance testing Packet generation for initiating receiver loopback, internal BER counting, or other modes Testing ICs with pre-coded control signals integrated into the data stream Protocol simulation during systems development 	1-13 Gb/s
SPG12J Pattern generator: PPG12500 Clock synthesizer: SCS16000J	Stressed programmable pattern generator with multi-tone jitter injection		1-13 Gb/s
PPG12500	Programmable pattern generator	<ul style="list-style-type: none"> IC testing Delivering packetized random data 	1-13 Gb/s
TG2P5A	PRBS generator	<ul style="list-style-type: none"> Production component testing Characterization testing 	39.8-56 Gb/s
TG1P4A	PRBS generator	<ul style="list-style-type: none"> OC 768 / STM 256 Backplane signal integrity and cable testing 25.8G, 28G, or 40G applications Telecom and datacom compliance testing 	22-44 Gb/s
TG1P2A	PRBS generator	<ul style="list-style-type: none"> Backplane signal integrity and cable testing Fibre Channel High-speed communications component testing 	11-21 Gb/s
TG2P1A	PRBS generator	<ul style="list-style-type: none"> SONET OC192 / SDH STM54 Fibre Channel 10GbE 	0.05-12.5 Gb/s



SCS16000J



TG1C1-A

Clock Synthesizers

Model Number	Description	Applications	Operating Range
SCS16000	Stressed clock synthesizer	<ul style="list-style-type: none"> Jitter tolerance testing Serial data receiver characterization Adds full stress capability to your existing BER tester 	0.5-16 Gb/s
SCS16000J	Stressed clock synthesizer with multi-tone jitter injection and spread spectrum clock modulation		0.5-16 Gb/s
TG1C1-A	Clock synthesizer	<ul style="list-style-type: none"> Manufacturing testing Device characterization Research and development lab applications 	0.5-13.5 Gb/s

Affordability without compromise



TR1C1-A



MC39R46M

Clock Recovery

Model Number	Description	Applications	Operating Range
TR1C1-A	Clock recovery	<ul style="list-style-type: none"> Data recovery and resampling SFP, fibre, and photonics applications 	0.622-13.5 GHz
MC19R26M	Clock recovery module	<ul style="list-style-type: none"> 100GE applications operating at transmission speeds of 25.8 Gb/s 	19-26 Gb/s
MC25R32M	Clock recovery module	<ul style="list-style-type: none"> 100GE applications with and without FEC operating at transmission speeds of 25.78125, 27.95, and 30.9375 Gb/s 	25.3-32 Gb/s
MC28R36M	Clock recovery module	<ul style="list-style-type: none"> 100GE applications operating at transmission speeds of 27.95 Gb/s. 16x Fibre Channel (16GFC) 	27.9-38 Gb/s
MC39R46M	Clock recovery module	<ul style="list-style-type: none"> 43 Gb/s SONET OC768 / SDH STM256 	39.8-44 Gb/s



TA0L50VA



TA0U50HA

System Amplifiers

Model Number	Description	Applications	Operating Range
TA0L30VA	Broadband system amplifier	<ul style="list-style-type: none"> Production line testing Multi-use laboratory RF amplifier Gain block for frequency domain applications Time domain pulse amplifier 	100 kHz – 30 GHz
TA0L50VA	Broadband system amplifier		100 kHz – 50 GHz
TA0U50HA	High-power system amplifier	<ul style="list-style-type: none"> Test amplifier for broadband power and gain applications Saturated RF amplifier testing Drive TWT or linear power amplifiers Antenna research and development 	0.01-50+ GHz
TA2U50HA	High-power system amplifier		2-50+ GHz



TD40MCA

Prescalers

Model Number	Description	Applications	Operating Range
TD20MCA	Frequency divider/prescaler	<ul style="list-style-type: none"> General purpose test accessory for microwave, communications, and test applications Divide-by-1,2,4,8 outputs 	DC-20 GHz
TD40MCA	Frequency divider/prescaler	<ul style="list-style-type: none"> General purpose test accessory for microwave, communications, and test applications Simultaneous divide-by-2,4,8 outputs 	DC-40 GHz



TR1D4A



MS4S1V1M



MD1S4V1M

Multiplexers and De-multiplexers

Model Number	Description	Applications	Operating Range
TR1D4A	Clock and data de-multiplexer	<ul style="list-style-type: none"> Simplifies high-bitrate BER measurements at half- and quarter-rate speeds Trigger BER testers, oscilloscopes, logic analyzers, and other instruments 	3.5-44 Gb/s
MS4S1V1M	4:1 multiplexer	<ul style="list-style-type: none"> Generate higher bitstreams for telecom applications 40 or 43 Gb/s SONET OC768 / SDH STM256 	2-44 Gb/s
MD1S4V1M	1:4 de-multiplexer	<ul style="list-style-type: none"> 40 or 43 Gb/s SONET OC768 / SDH STM256 	2.6-44 Gb/s

Control Software

Model Number	Description	Applications	Measurements
Signal Integrity Studio	Software application	<ul style="list-style-type: none"> Serial data receiver characterization Testing devices with high SerDes counts Optical transceiver/transponder characterization 	<ul style="list-style-type: none"> Single and multi-lane BER Crosstalk susceptibility testing Parallel jitter tolerance



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