

# Advanced Test Equipment Rentals - www.atecorp.com 800-404-ATEC (2832)

# **Bit Error Rate Test Set**



packetBERT PB200

Features
> Specs

# packetBERT<sup>TM</sup> PB200

This product is discontinued. View <u>alternative products</u>.

#### **CHARACTERISTICS**

#### **GENERATOR**

Clock -

External clock input:

Frequency: DC to 200 MHz. Amplitude: 0.5 to 5.0 V p-p.

Connector: BNC.

Termination select: 50 Ohm to -2 V, +3 V, AC or GND.

Input range: ECL, TTL, PECL compatible. Threshold resolution: 10 mV step.

External clock reference input:

Frequency: 10 MHz,  $\pm 100$  ppm maximum. Amplitude: 0.5 to 2.0 V p-p, AC coupled.

Termination: 50 Ohm. Connector: BNC.

Internal synthesized clock source:

Frequency: 1 Hz to 200 MHz.

Resolution: 1 Hz. Accuracy: 10 ppm.

BURST clock:

Programmable gap: 16 Kbits maximum, 8-Bit resolution.

#### Pattern Generator -

PRBS:  $2^{N} - 1$ , N = 31, 23, 15, 11, 10, 9, 7.

Programmable word: 256 Kbits maximum, 8-Bit resolution.

Mark density: PRBS 2<sup>10</sup> 1 (1/8, 1/4, 1/2, 3/4, 7/8). Mixed mode frame: 256 Kbits maximum, 8-Bit resolution.

Error injection:

Error: Single, Rate, External (TTL). Field select: Overhead, payload or both. Error rates: Error rate of  $10^{-n}$ , n = 3, 4, 5, 6, 7.

## Outputs -

Data and clock outputs:

Format: NRZ.

Configurations: Differential (True/Complement).

Source impedance: 50 Ohm.

Connector: BNC.

Amplitude: 0.5 V to 2.0 V, 10 mV step.

Offset, 50 Ohm to GND: -2.0 V to +1.8, 10 mV step (termination to 50 Ohm will increase the range for PECL).

Data delay range: ±1.0 ns, 20 ps resolution.

Rise/fall time: 300 ps typical, 500 ps maximum (20 to 80%).

Pattern sync output:

Signal level: 250 mV $_{\rm p-p}$  into 50 Ohm load.

#### Auxiliary -

Data inhibit input: ECL, 50 Ohm to -2 V, BNC. Clock disable input: ECL, 50 Ohm to -2 V, BNC.

#### **ANALYZER**

#### Data and Clock -

Data and clock inputs:

Clock input: External or internal from generator.

Data polarity: True/invert selectable.

Input mode select: Single-ended or differential.

Termination select: 50 Ohm to -2 V, +3 V, AC or GND.

Input range: ECL, TTL, PECL compatible. Threshold resolution: 10 mV step. Threshold resolution: 10 mV step.

#### Synchronization -

Auto search: Clock and data threshold, clock and data timing

skew, data pattern and polarity.

#### Measurements -

Frequency: 1 Hz to 200 MHz.

Bit errors: Window, Totalize, Timed Test, Simultaneous 1's, 0's

and All Errors.

BER test field: Overhead, payload or both. Propagation delay: Up to 128 Kbits.

Eye-width: Up to 32 ns.

#### Reference Data Patterns -

Identical to Pattern Generator but independent. Startup delay: 0 to 64 Kbits programmable.

## Auxiliary Signals (BNC Connectors) -

Error count inhibit input: ECL, 50 Ohm to -2 V. Error detect output: RZ, TTL, 50 Ohm source. Analyzer clock disable: ECL, 50 Ohm to -2 V. Data delay output: ECL, 50 Ohm source.

#### **Common Characteristics**

#### Pattern -

Controls: Start/Stop, Pause/Resume or Single Step.

Save/Load:

Floppy disk: 3.5 in. Internal storage: 2 Mbits.

Pattern Editor Software requires PC running Windows 3.1 or above.

#### Remote Interface -

GPIB: IEEE 488.2 compatible. RS-232C: DB9 connector. Parallel printer: DB25 connector.

Monitor: DB15, VGA Analog Output.

#### **Environmental** -

Operating temperature: 5 to 40°C. Storage temperature: -10 to 60°C.

Meets European Community EMC Directive 89/336/EEC for

electromagnetic compatibility.

#### Safety -

UL1244, CSA231, EN61010-1, IEC61010-1.

#### Power -

AC line: 100 to 120 V AC, 200 to 240 V AC. Power consumption: 300 W maximum.

# **Physical Characteristics**

Dimensions	mm	in.
Height	203.2	8
Width	355.6	14
Depth	508	20
Weight	kg	lbs.
Net	13.6	30





Product(s) complies with IEEE Standard 488.2-1987.





**ISO 9001** Tektronix Measurement products are manufactured in ISO registered facilities.



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