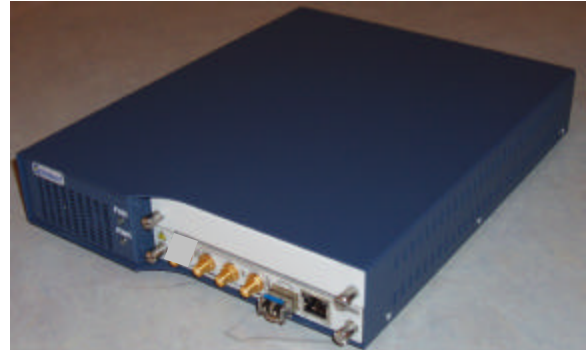


OPG1250

1.25Gbps Optical & Electrical Pattern Generator System



Overview

The OPTELLENT OPG1250 is a cost-effective easy-to-use multi-rate pseudo-random bit sequence (PRBS) generator system for testing components, subsystems and systems. The OPG1250 incorporates a pattern generator and reference clock circuits in a compact unit that provides both electrical and optical outputs. The optical output is provided by an SFP transceiver available at any of the widely used wavelengths (850nm, 1310nm or 1550nm)

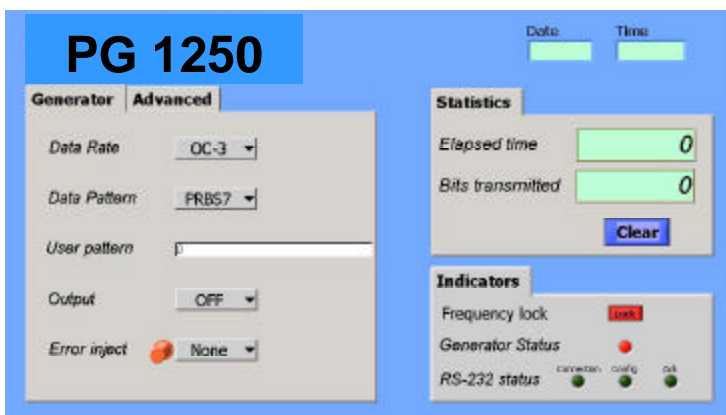
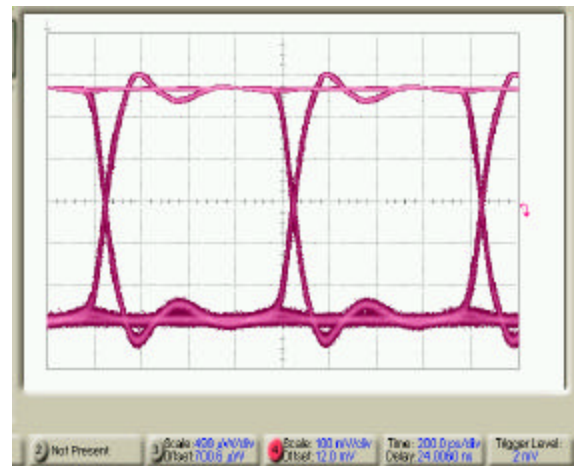
An intuitive graphical user interface (GUI) enables simple point-and-click operation. It is available with four preset data rates including Gigabit Ethernet and Fibre Channel as well as continuously variable data rate options.

Applications

- ▶ Electronic and optoelectronic component testing
- ▶ Production testing of ICs and subsystems
- ▶ EMI/EMC testing

Key Features

- ▶ **Data Patterns: PRBS7, PRBS23, 1010; Custom**
- ▶ **Data Rates: 155.52 to 1250 Mb/s**
- ▶ **Built-in reference clock**
- ▶ **Compact and easy-to-use**



Standard Rates	Data Rate (Mb/s)
OC-3	155.52
OC-12	622.08
Fibre Channel	1062.5
Gigabit Ethernet	1250

Specifications

ELECTRICAL

PARAMETER	MIN	TYP	MAX	UNIT
Data Rate (1)	155.52		1250	Mb/s
Frequency Accuracy			± 50	ppm
Data Output Amplitude (pk-pk) (2)	500	550	750	mV
Data Rise/Fall Time (3)		130	160	ps
Data Output RMS Jitter (3)		4.5	6	ps
Clock Output Amplitude	200			mV
Electrical Sensitivity (3)			50	mV
Trigger Output Amplitude	400			mV

(1) Base option has four fixed rates. Contact factory for other data rates

(2) Contact factory for larger output signal amplitudes up to 1800 mV

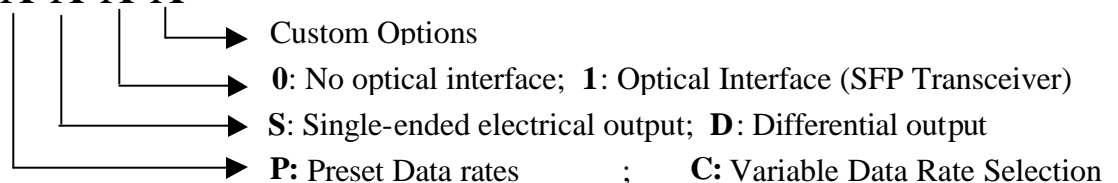
(3) Measurements based on PRBS 2²³-1, data at 1250 Mb/s

GENERAL/ENVIRONMENTAL

PARAMETER	MIN	TYP	MAX	UNIT
Chassis Electrical Voltage	100		240	VAC
Current Drain at Normal Voltage			1.4	A
Operating Temperature Range	5		45	°C
Storage Temperature Range	-40		70	°C
Dimensions (L x W x H)		273x216x45 10.75x8.5x1.75		mm inch
Interfaces				
Optical	SFP (LC Connector)			
Electrical	50 Ω SMA			
RS 232	RJ-45 connector			
Operating System	Windows 98/2000/NT			

Ordering Information

OPG1250-X-X-X-X



Example: OPG1250-P-S-0: 1.25Gb/s pattern generator, Preset data rates, Single-ended electrical output, No optical interface

Specifications are subject to change without notice.

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