

# CGR-X320

## 32 GHz Clock Generator



### Overview

The OPTELLENT CGR-X320 is a cost-effective, easy-to-use clock generator system for R&D and manufacturing environments. It generates differential line rate clock, and a low frequency trigger in a compact module. The CGR-X320 produces a variable clock output between 24 and 32 GHz with a resolution of 10 kHz.

An intuitive Graphical User Interface enables easy point-and-click operation. The Optellent CGR-X320 software runs on Windows platforms over USB or RS-232 serial interface via an RJ-45 Connector provided on the front panel.

### Applications

- ▶ Reference source for PPG/BERT/RZ converters
- ▶ Testing of optical transceivers, transponders, linecards, and subsystems
- ▶ Testing of Gb/s ICs, electronic modules, subsystems, and systems
- ▶ Serial high-speed backplane and board design

### Key Features

- ▶ Differential Clock Outputs
- ▶ Supports datacom and telecom protocols
- ▶ 10 kHz resolution
- ▶ Trigger output for synchronizing other equipment

### System Specifications

PARAMETER	MIN	MAX	UNIT
Chassis Electrical Voltage	100	240	VAC
Operating Temperature Range	5	45	°C
Storage Temperature Range	-40	70	°C
Dimensions (L x W x H)	300 x 240 x 64		mm <sup>3</sup>
	12 x 9.5 x 2.5		inch <sup>3</sup>
PC Interface	USB/RS-232		
Standard Warranty	2 years		

## Specifications

Parameter	Min	Typ	Max	Units
High frequency Output Format	Differential			
Clock frequency	24		32	GHz
Output Amplitude (single-ended)		250	500	mV
RMS Jitter		1.2		ps
Trigger Output Amplitude	300			mV <sub>p-p</sub>
Trigger frequency	Clock frequency/16			
Electrical terminations/connectors	AC-coupled 50Ω 2.92 mm Female			

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