



Agilent Technologies

Errata Notice

This document contains references to “Centellax.” Please note that the test and measurement product portfolio once owned by Centellax, Inc. is now part of Agilent Technologies. For more information about these products and support, go to **www.agilent.com/find/bert-news**.

Welcome to the Centellax PPG12500 12.5Gb/s Programmable Pattern Generator. This quick start guide will help you identify the contents of the shipping package, perform a quick functional check of the product, and guide you on where to find more information and support for the PPG12500.

The PPG12500 is shipped in a protective box with all the accessories required for operation. The shipping box contains:

- PPG12500 Programmable Pattern Generator



- Accessory kit, which includes:

- (Qty 4) 2.92mm Female to Female Adaptors
- (Qty 2) 50Ω 18GHz 1W SMA Male Terminations
- (Qty 2) 5x20mm Ceramic 250V 2A Fuses
- (Qty 2) SMA Male to Male Phase Stable 36" Cables

- AC power cord

- PPG12500 Quick Start Guide (this document)

- PPG12500 CD-ROM, which includes:

- PPG12500 Users Guide
- Pattern Utility Software
- USB Drivers
- LabView Driver



For more information on the operation and features of the PPG12500 please refer to the PPG12500 Users Guide on the CD or the product webpage <http://www.centellax.com/?PPG12500>

Technical Support information: support@centellax.com

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Unpacking

Carefully remove the PPG12500 from the case in an ESD-safe environment.

Important Notes

- Use ESD protection at all times when using the instrument
- Use the 2.92mm adapters on 2.92mm clock and data ports
- Install the instrument on a flat surface away from heat sources
- Do not block the fans, or the exhaust vents on the rear and side panels (3" min. clearance).
- Use a 8 lbf-in (90 N-cm) torque wrench when attaching connectors

Installation

- 1 Plug the AC power cord into a suitable wall socket. (100-240V AC, 50/60Hz).
- 2 Plug the other end of the AC power cord into the PPG12500, rear panel power socket.
- 3 Connect the PPG12500 to a clock source and high speed sampling scope as shown in Figure 1.

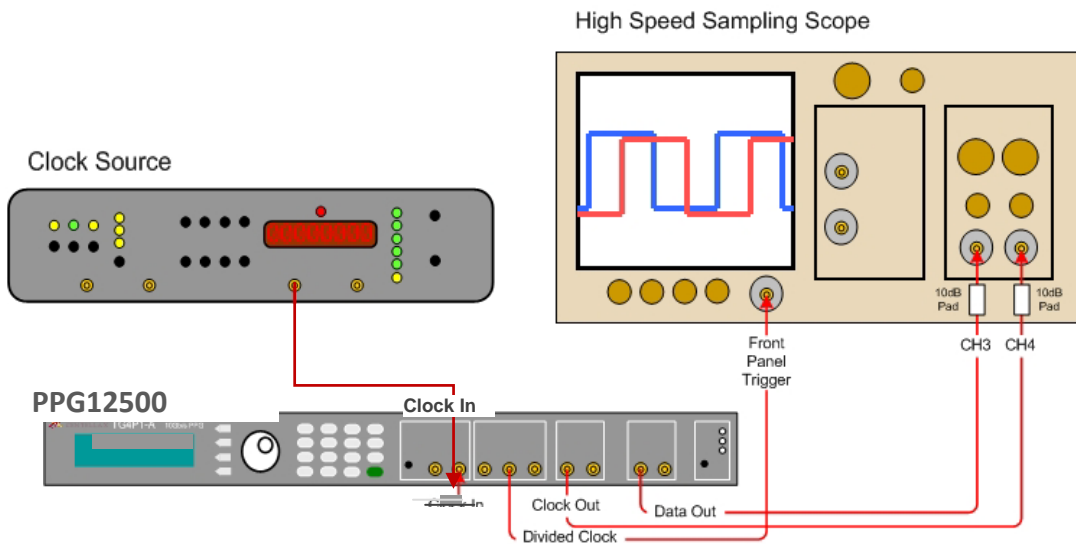


Figure 1. Installation setup

- 4 Set up the clock source as follows: Frequency 10GHz, Output Level 0dBm
- 5 Set up the high speed sampling scope as follows: (Note: Agilent 86100C Infiniium DCA used in this example, other high speed scope setup option names may differ)

Eye/Mask mode	
Trigger Level	0V
Timbase Scale	50ps/div
Channel 3 Setup	Attenuation 10dB
	Scale 316mV/div
	Offset -600mV
Channel 4 Setup	Attenuation 10dB
	Scale 316mV/div
	Offset +600mV

- 6 Press the **Output On/Off** button on the PPG12500 front panel to turn on the data and clock outputs.
- 7 Verify that the waveform is similar to the one shown in Figure 2.

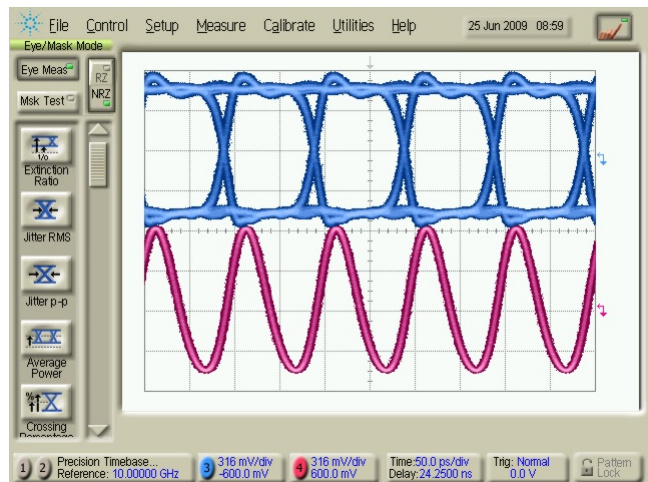


Figure 2. Installation setup waveform