

# CG6000, 2-Channel, 25 MHz to 6.0 GHz Clock Synthesizer

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Made by WavePond® - A division of Chase Scientific Company

## FEATURES

- (2) Independent 25 MHz – 6.0 GHz Synthesizers.
- Powered and controlled by USB interface.
- Amplitudes from -4dBm to 5dBm into 50 ohms.
- Fits into PCI, PCIe, and no slot.
- Phase lock to external 10 MHz clock. Contact WavePond for higher frequencies.
- 1 ppm, 50 MHz on-board reference ( $T_j < 1\text{psec}$ ).
- Programming optional. Includes GUI (exe) that doubles as API for custom coding.
- Optional USB enclosure (CG6000-Box)
- All software, manuals, data sheets, etc. are available for download from web site.



## APPLICATIONS

- High Quality A/D or D/A Clock Source
- Crystal / SAW Oscillator Substitution
- Communications Clock Reference
- Clock Speed Stress Test for Manufacturing
- Video Encoding
- Fixed Sine Wave Source w/optional filters

## DESCRIPTION

The CG6000 is a cost effective clock source for a variety of applications. The same board can fit into PCI / PCI-Express slots as well as no-slots plus WavePond's custom USB external enclosure. It is completely powered and controlled by the USB interface. Also, no programming is necessary, at least in the traditional sense. Use the GUI, command line, batch files, or custom code.

### SMA # 1 (top):

AC coupled external reference clock input. Frequency range is 10 MHz (default) to 200 MHz. Amplitude range is 1Vpp to 3Vpp. The reference clock is software controlled to be either the internal 50 MHz clock or an external clock.

### SMA # 2:

AC coupled square wave output of 1<sup>st</sup> synthesizer. It has an amplitude range of -4dBm to 5dBm, software programmable in 3dBm steps.

### SMA # 3:

Square wave output of 2<sup>nd</sup> synthesizer. It has the same characteristics of 1<sup>st</sup> and uses the same reference clock but its output frequency and amplitude is independently selectable.

Model Number	Description
CG6000	2-Ch, 6 GHz Clock Synth. (PCI, PCIe, No-Slot)
CG6000-Box	2-Ch, 6 GHz Clock Synth. (USB Only)

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