

Valon 5009 Dual Frequency Synthesizer Module

The new **Valon 5009 Dual Frequency Synthesizer** module is our latest offering in high frequency synthesizer sources. These frequency synthesizers are perfect in applications that require a spectrally pure and highly stable signal source or timing clock. Our synthesizers have replaced laboratory generators costing many times more in a number of applications. Each module actually contains two independent sources locked to the same internal or external frequency reference or standard. Having two phase coherent sources in the same convenient package opens up a wide variety of test applications and solutions



The **Valon 5009** frequency range is **23MHz to 6000MHz**. The output power is increased to +15dBm and can be adjusted in 0.5dB steps with 31.5dB step attenuator.

- Extended frequency operation from 23MHz to 6000MHz
- 31.5dB of attenuation control
- Output power up to +13dBm minimum, 15dBm typical
- Simple human readable command based interface with menu. Use any terminal program.
- USB or TTL serial interface. TTL interface allows simple user hardware integration.
- Overvoltage protection as well as under voltage reset
- ± 2 ppm analog TCXO, external reference input 10 – 200 MHz.

New in the 5009 is an ARM 32-bit Cortex™ M3 processor. The synthesizer can now be command-line driven and any terminal program can be used to control the synthesizers. Simple human readable text commands can be used to set all the functions. The GUI will still be available as a free download but it's not essential to the operation of the synthesizer. The embedded firmware upgrades and new features will be downloadable from our website as they become available.

There is also an additional TTL serial port that allows for direct machine-to-machine hardware interfacing; bypassing the USB port altogether. You can connect the 5009 using the TTL port directly to your embedded controller without the need for any USB drivers.

Firmware updates

All new updates can easily be loaded onto the synthesizer through the serial port using our code loader software. You will never need to return the synthesizer for firmware upgrades or changes.

Be sure to sign up on our website to receive 5009 updates. <http://www.valontechnology.com/newslettersignup.html>

Valon 5009 versus Valon 5008

Features	Valon 5009	Valon 5008
Number of Sources	2	2
Maximum Frequency	6000MHz	4400MHz
Minimum Frequency	23MHz	138MHz
Maximum output power	+15dBm (3GHz)	9dBm (3GHz)
Output power control	Four power levels ~ 3dB steps	Four power levels ~3dB steps
Internal Reference	20.000MHz ± 2 ppm	10.00MHz ± 2 ppm
External Reference	10MHz – 200MHz	5MHz – 105MHz
Attenuation	0-31.5dB in 0.5dB steps	None
Com Port	1 USB plus 1 TTL	1 USB
User Interface	Text commands or GUI	GUI only
Firmware Upgrade	Downloadable from website	RMA to factory

**Our Valon 5009 is in stock now!
\$549 plus shipping**

Email sales@valontechnology.com
Or call (650) 367-1059

All our products are designed and
manufactured in California.