



# Agilent Generate and analyze microwave signals with confidence

*Manage the complexity of signal generation capability and versatility as never before with Agilent's new PSG high performance microwave signal generators*



- **First microwave signal generator to provide vector modulation in a single integrated instrument**
- **Pulse Builder and Signal Studio — a PC-based tool to develop pulsed signals for radar applications (Option 420)**
- **Optional ramp (analog) sweep provides continuous sweep measurement capability and offers fully automated use with the 8757D scalar network analyzer**
- **Check out our Website [www.agilent.com/find/psg](http://www.agilent.com/find/psg)**

## Easily verify the most demanding signal parameters

The new PSG signal generators from Agilent Technologies combines the best performance parameters in the industry with the only integrated vector (complex) modulation capability in a microwave signal generator. Whether you're working in satellite, radar, broadband wireless or other advanced communications, you'll finally be able to test your components and systems with realistic signals, early in the design process.

## Create complex signals

The new vector signal generator, the next generation of PSG signal generators, features an internal baseband generator and I/Q modulation capability to simulate wideband complex waveforms for a variety of microwave applications. The complex signal generation capability and versatility provides the ability to download custom waveform files from PC-based signal development software to create radar chirps, barker codes, or any other complex signal.

## Ramp sweep capability adds value to scalar analysis

The new PSG provides faster sweeps, which means increased test throughput. The PSG's higher output power means more dynamic range in frequency response measurements.



**Agilent Technologies**

# Agilent PSG Series Microwave Signal Generators

	<b>E8247C CW</b>	<b>E8257C analog</b>	<b>E8267C vector</b>
<b>Frequency range</b>	250 kHz to 20 GHz or 40 GHz		250 kHz to 20 GHz
<b>Output power</b>	Standard (E8247C & E8257C only)	High RF output power Option 1EA (E8247C & E8257C only)	Standard
<b>20 GHz models</b> >3.2 GHz to 20 GHz	+13 dBm to -20 dBm	+20 dBm (+25 dBm typical) to -20 dBm	+18 dBm to -130 dBm
<b>40 GHz models</b> >20 GHz to 40 GHz	+9 dBm to -20 dBm	+14 dBm (+17 dBm typical) to -20 dBm	
<b>Digital modulation</b>			
RF modulation bandwidth using external I/Q inputs			160 MHz
RF modulation bandwidth using internal baseband generator			80 MHz
Baseband sample rate			100 Msamples/s
<b>SSB phase noise (CW)</b> (>3.2 to 10GHz)	-110 (-113 typ) dBc/Hz (standard 20 kHz offset from carrier) -110 (-115 typ) dBc/Hz (10 kHz offset from carrier with enhanced phase noise Option UNR)		
Available options include: narrow pulse modulation below 3.2 GHz, high output power, enhanced phase noise, ramp sweep/scalar interface, 1GHz wideband I/Q inputs, and more.			

For more new product information,  
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<http://www.agilent.com/find/psg>



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© Agilent Technologies, Inc. 2002  
Printed in USA, October 7, 2002  
5988-7885EN



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