



Measurably better value

Information for distributors and agents

New product briefing note: -

TG5011 & TG2511

50MHz & 25MHz DDS Function Generators

Background

TTi have been producing DDS based function/arbitrary generators since 1995. The successor to the original product, the TG1010A, is still in production and selling well.

However, Agilent have successfully dominated this market - originally with the HP 33120 and then with its successor, the Agilent 33220A. This product remains the market leader despite attempts to dislodge it, most notably by Tektronix with the AFG3000 series.

Over the past decade, TTi have concentrated on lower cost pure function generators (TG300 series, TG550, TG2000) and on multi-channel true arbitrary waveform generators (TGA1240 and TGA12100 series).

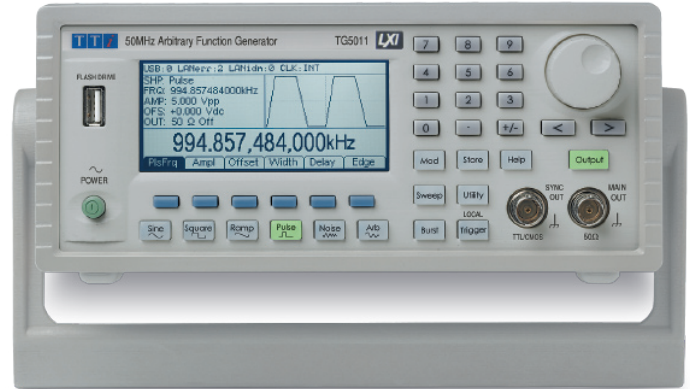
A truly competitive DDS function/arbitrary generator

Now TTi are launching a competitor to the Agilent 33220A offering all of the facilities of that product but with much higher bandwidth and sampling speed.

The TG5011 is a 50MHz product that will sell at a significantly lower price than the 20MHz Agilent 33220A and offers a dramatically better price to performance ratio.

Unlike the Tek AFG3000 series, the TG5011 uses a similar half rack 2U case style to the Agilent product. Despite this, it incorporates a much larger screen capable of displaying representative waveforms simultaneously with text. It therefore provides a similar level of information to the very large screen of the Tektronix products.

The TG5011 benefits from using the latest internal technologies and has up-to-date features such as USB flash drive storage.



Pricing

The current price of the 20MHz Agilent 33220A is \$1870 (plus options) while that of the 25MHz Tektronix AFG3021 is \$1950.

The price of the 50MHz TG5011 will be \$1495*. The TG5011G that includes a GPIB interface will be \$1635*.

Agilent now have a lower cost model, the 10MHz 33210A at \$1200, but this has no arbitrary waveform capability unless option 002 is specified which costs another \$400.

By contrast, the 25MHz TG2511 includes arbitrary waveform capability as standard and will be priced at \$1295*.

Market Potential

The worldwide market for general purpose function/ arbitrary generators is very large running to several tens of thousands of units per year.

Agilent have a dominant position in this market and are likely to maintain it. However, TTi believes that the combination of higher performance and lower price will enable the TG5011 and TG2511 to take a share of the market which, although low in percentage terms, can represent very significant sales levels totalling several thousand per year.

The launch of the TG5011 & TG2511 will be backed up with high quality printed and web material which demonstrates the products superior value.

www.tti.eu/go/tg5011

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TTi TG2511 & TG5011 versus Agilent 33210A/33220A and Tektronix AFG3021B					
	33210A	TG2511	33220A	TG5011G	AFG3021B
Euro Price	\$1200	\$1295*	\$1870	\$1635*	\$1950
Max. Sine	10MHz	25MHz	20MHz	50MHz	25MHz
Resolution/Min. Freq.	14 digits/1mHz	14 digits/1µHz	14 digits/1µHz	14 digits/1µHz	12 digits/1µHz
Max. Square	10MHz	25MHz	20MHz	50MHz	12.5MHz
Rise Time	<20ns	<13ns	<13ns	<8ns	<18ns
Arbitrary Waveforms	No (Option)	Yes	Yes	Yes	Yes
Sampling Clock	(50MS/s)	125MS/s	50MS/s	125MS/s	250MS/s
Waveform Size	(8k x 14 bits)	128k x 14 bits	64k x 14 bits	128k x 14 bits	128k x 14 bits
Flash Drive Storage	(No)	Yes	No	Yes	Yes
Pulse Generator Mode	0.5ms - 5MHz	0.5ms - 6.5MHz	0.5ms - 5MHz	0.5ms - 12.5MHz	1ms - 12.5MHz
Variable Rise/Fall	Yes	Yes	Yes	Yes	Yes
Independent Rise/Fall	No	Yes	No	Yes	No
Noise (Bandwidth)	Yes (7MHz)	Yes (20MHz)	Yes (7MHz)	Yes (20MHz)	Yes (25MHz)
Other Waveforms	Triangle, Ramp	Triangle, Ramp, Sinc, Exp. + Log Rise/Fall, Haversine, Gaussian, Cardiac	Triangle, Ramp, Sinc, Exp. Rise/Fall, Cardiac	Triangle, Ramp, Sinc, Exp. + Log Rise/Fall, Haversine, Gaussian, Cardiac	Triangle, Ramp, Sinc, Exp. Rise/Fall, Gaussian, Lorentz, Haversine
AM, FM, PM, FSK & PWM modulations	Yes	Yes	Yes	Yes	Yes
Max. modulation freq. AM, FM, PM, PWM	20kHz	20kHz	20kHz	20kHz	50kHz
Frequency Stability	10ppm	1ppm	10ppm	1ppm	1ppm
Multi-generator locking	No (Option)	Yes	No (Option)	Yes	Yes
Display Resolution	240 x 56 LCD	256 x 112 LCD	240 x 56 LCD	256 x 112 LCD	320 x 240 LCD
Simultaneous Text and Waveform	No	Yes	No	Yes	Yes
Case Size	½ rack 2U	½ rack 2U	½ rack 2U	½ rack 2U	330 x 158mm
Interfaces	USB/LAN/GPIB	USB/LAN/*	USB/LAN/GPIB	USB/LAN/GPIB	USB/LAN/GPIB
LXI Compliance	Yes	Yes	Yes	Yes	No
Case Format	2U half-rack	2U half-rack	2U half-rack	2U half-rack	'scope style

* G models have GPIB. Pricing: TG2511 - \$1295, TG2511G - \$1435, TG5011 - \$1495, TG5011G - \$1635

* \$ pricing for the products is indicative only and will depend upon exchange rates, duty levels and shipment costs.