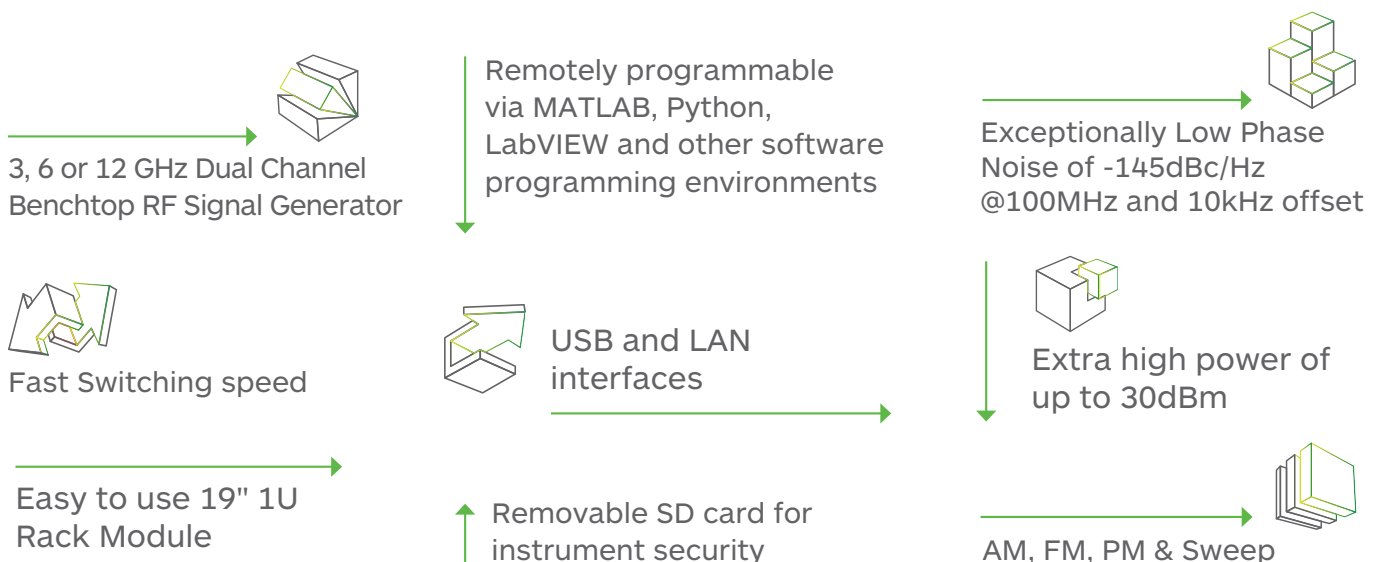


LS3082R/LS6082R/LS1292R-DST

3, 6 or 12 GHz Dual Channel Rack mount RF Signal Generator



The all-new Lucid Series Rack mount platform is designed to offer maximum channel density at minimum cost of space. This rack-mounted platform, offers up to 2 phase coherent channels in a 19" 1U box. Featuring high power, fast switching speed, superior signal integrity and purity, removable memory card for maximum security, all the necessary modulated signals for analog communication systems, with built in LAN and USB interface, the Lucid Series is designed to meet today's most demanding specifications, needed for ATE and production lines.



Signal Integrity and Purity

One of the most important requirement in today's testing and measurement applications is high signal quality. With a typical SSB phase noise of -145dBc at 100MHz, and -132dBc at 1GHz, at 10 kHz carrier offset, Tabor's All-New Lucid Series platform delivers one of the best quality signals available on the market today, answering the ever-growing demand for clear and precise signals.

High Power 30dBm

Many test applications require high power signals or they are needed to overcome losses in the test system. The Lucid RF generator offers an extended power range that can drive signals up to +30dBm. The ability to drive high power signals eliminates the need for external power amplifiers and produces high quality, accurate signals.

Modulation Schemes

Signal bursts and chirps have become common need in the daily life of any aerospace or defense application. With Tabor's All-New Lucid Series, any modulation is possible, no matter if its AM, FM, PM and Sweep.

Multiple Ways to Control the Unit

Tabor's Lucid Series comes with its own dedicated software to control the instrument functions, modes and features via a graphical user interface (GUI) as well as a complete set of drivers, allowing you to write your application in various environments including Labview, Python, CVI, C++, VB and MATLAB. You may also link the supplied dll to other Windows-based API's or use low-level SCPI commands to program the instrument.

LS3081R/LS6081R/LS1291R-DST

3, 6 or 12 GHz Dual Channel Rack mount RF Signal Generator

Specifications

FREQUENCY		MODULATION		OUTPUTS	
Range:		FREQUENCY MODULATION		RF OUT	
LS3082R:	9 kHz to 3GHz	Maximum Deviation:	10 MHz	Impedance:	50Ω
LS6082R:	9 kHz to 6GHz	Resolution:	0.1% or 1 Hz (the greater)	Connector type:	SMA
LS1292R:	9 kHz to 12GHz	Modulation Rate:	1 MHz	Number of channels:	2
Resolution:	0.001 Hz	Resolution:	1 Hz	REFERENCE OUT	
Phase offset:	0.01 deg	AMPLITUDE MODULATION		Impedance:	50Ω
Switching speed:	500 μs	AM Depth:		Connectors type:	2 x BNC
FREQUENCY REFERENCE		Type:	Linear	Frequency:	10 MHz or 100 MHz
Temp. Stability:	±25 ppb max.	Maximum settable:	90%	Shape:	Sine
Aging:	± 3 ppm for 20 years	Resolution:	0.1% of depth	Power:	3 to 7 dBm
Warm up time:	30 min	Accuracy (1 kHz)	< ± 4% of setting	GENERAL	
AMPLITUDE		Modulation rate:	DC to 100 kHz	Voltage Range:	90VAC to 264VAC
Max output power:		PHASE MODULATION		Frequency Range	47Hz to 63Hz
Settable:	+30 dBm	Peak Deviation:	360 deg	Power Consumption	100W
Calibrated:	+25 dBm ⁽¹⁾	Modulation Rate:	DC to 100 kHz	Interface:	
Min output power:		SWEEP		USB Host:	2 x front panel type A 1 x rear panel type A
Settable:	-90 dBm	Range:	Same as freq. range	USB Device:	1 x rear panel, type B
Calibrated:	-70 dBm	Modes:	Frequency and amplitude	LAN:	1 x 1000/100/10 BASE-T
Resolution:	0.01 dB	Dwell time:	10 μs to 1000 s	Storage:	Removable SD card
Power Mute:	-95 dBm	Resolution:	1 μs	Dimensions (WxHxD):	450 X 43 x 500 mm
Output Return Loss:	-10 dBm	Number of points:	2 to 65535	Weight:	
Accuracy (dB):		Step change:	Linear	Without Package:	6 kg
Up to 100MHz:	±0.3 (typ.)	Trigger:	Free run, External, Bus, Timer	Shipping Weight:	6.5 kg
100MHz to 3GHz:	±0.4 (typ.)	INPUTS		Temperature:	
3GHz to 9GHz:	±0.7 (typ.)	MODULATION INPUT		Operating:	0°C to +40°C
Above 9GHz:	±1 (typ.)	Connector Type:	BNC	Storage:	-40°C to +70°C
PHASE NOISE (dBc/Hz)		Input Impedance:	50Ω	Warm up time:	15 minutes
Measured @ 10kHz offset		Max. input voltage:	±1V	Humidity:	85% , non-condensing
1 GHz:	-138 (typ.)	Input damage level:	±3.5V	Safety:	CE Marked, IEC61010-1:2010
2 GHz:	-133 (typ.)	PULSE / TRIGGER INPUT		EMC:	IEC 61326-1:2013
3 GHz:	-130 (typ.)	Connector type:	BNC	Calibration:	1 years
6 GHz:	-124 (typ.)	Input Impedance:	50Ω	Warranty:	1 year
12 GHz:	-118 (typ.)	Input voltage:	TTL, CMOS compatible	ORDERING INFORMATION	
HARMONICS (dBc)		Threshold:	1.5V	MODEL	DESCRIPTION
Up to 100 MHz:	-30 dBc	Damage level:	-0.42V or 5.42V	LS3082R-DST	3GHz RF Dual Channel Signal Generator
100 MHz to 12 GHz:	-50 dBc ⁽²⁾	EXTERNAL REFERENCE INPUT		LS6082R-DST	6GHz RF Dual Channel Signal Generator
SUB-HARMONICS (dBc)		Connector type:	BNC	LS1292R-DST	12GHz RF Dual Channel Signal Generator
6 to 12 GHz:	-55 dBm	Input Impedance:	50Ω		
NON-HARMONICS (dBc)		Waveform:	Sine or Square		
Up to 12 GHz:	-90dBc (typ.) ^(3,4) -60dBc max. ⁽⁵⁾	Frequency:	10/100MHz		
		Power:	-3 dBm to +10 dBm		
		Absolute Max. Level:	+15 dBm		
		Locking Range:	±2 ppm		

⁽¹⁾ Above 25kHz; ⁽²⁾ 750MHz to 900MHz -35dBc (typ.); ⁽³⁾ -60dBm max. @ 1GHz, 1.5GHz, 2.5GHz and 3GHz;
⁽⁴⁾ -75dBm max. @ -15dBm to +15dBm and f>6GHz; ⁽⁵⁾ Boundary spurs which may appear @ -100MHz to +100MHz offset from CW

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