

Product Datasheet - Technical Specifications



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
LUCID SERIES
THINK RF THINK LUCID

RACK MOUNT MODELS


The all-new Lucid Series Rack mount platform is designed to offer maximum channel density at minimum cost of space. The rack-mounted platform, offers up to 4 phase coherent channels in a 19" 1U box and up to 16 phase coherent channels in a 19" 3U box. Featuring extremely fast switching speed, superior signal integrity and purity, removable memory card for maximum security, all the necessary modulated signals for analog communication systems, built in LAN and USB interface, the Lucid Series is designed to meet today's most demanding specifications, needed for ATE and production lines.



3, 6 & 12GHz multi-channel RF analog signal generator




Remotely programmable via MATLAB, Python, LabVIEW and other software programming environments.



Exceptionally Low Phase Noise of -145dBc/Hz @100MHz and 10@kHz offset




Fast Switching speed of <100us




USB and LAN interfaces




Rack mount dedicated for maximum channel density in minimum rack space



Up to 16 phase coherent channels in a single rack-mounted box



Removable SD card for instrument security



AM, FM, PM, Sweep, Pulse & Pattern Modulation



Signal Integrity and Purity

One of the most important requirements in today's testing and measurement applications is a high signal quality. With a typical SSB phase noise of -145dBc at 100MHz , and -132dBc at 1GHz , at 10kHz carrier offset. Lucid delivers one of the best quality signals available on the market today.

Multiple Ways to Control the Unit and Write Your Code

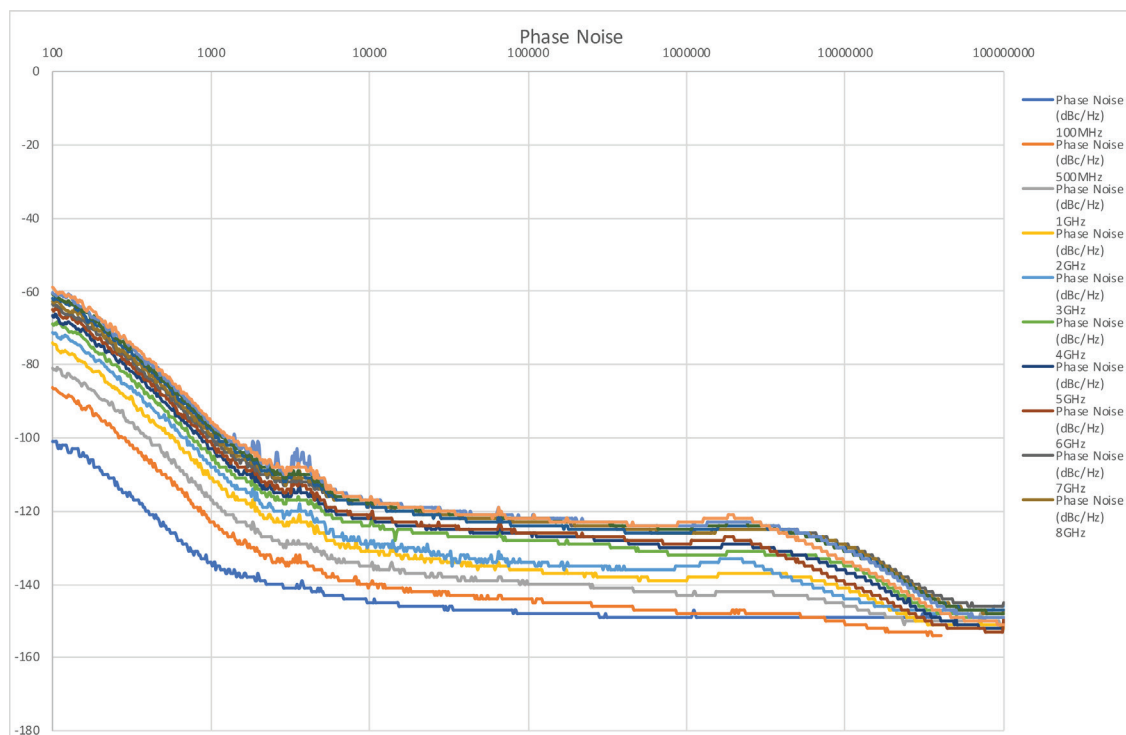
The Lucid Series has a dedicated software to control the instrument functions, modes and features via a graphical user interface (GUI). It also includes a complete set of drivers, allowing you to write applications in various environments, including LabVIEW, Python, CVI, C++, VB and MATLAB. You may also link the supplied DLL to other Windows-based API's or use low-level SCPI commands to program the instrument, regardless of whether the application is written for Windows, Linux or Macintosh operating systems.

Modulation Schemes

Signal bursts and chirps have become common need in most aerospace or defense application. With Tabor's Lucid Series, any signal modulation is possible, no matter if "narrow" or "standard" signals are required. On top of its outstanding pulse modulation performance, the Lucid Series is also equipped with many CW interferers, and modulated signals such as AM, FM, PM, Pulse, Pattern and Sweep.

Multi-channel, phase coherent, benchtop generator

Many test systems and experimental setups require multiple RF channels, either separate or synchronized. The Lucid series rack mounted platform offers up to 16 separate or phase coherent, RF outputs in a single 19" 3U box, saving up to 16 times the space compared to available rack mounted solutions on the market. You can save both valuable bench/rack space and investment capital without compromising performance.



Specifications

GENERAL	
Voltage Range:	90VAC to 264VAC
Frequency Range:	47Hz to 63Hz
Power Consumption:	
1U box:	100W
3U box:	400W
Interface:	
Host:	2 x front panel USB type A 1 x rear panel USB type A
Device: USB: LAN:	1 x rear panel USB type B 1 x rear panel 1000/100/10 BASE-T
Storage:	Removable SD card
Dimensions (W x H x D):	
1U box:	450 X 43 x 500 mm
3U box:	450 X 129 x 500 mm
Weight:	
Without Package:	
1U box:	6.0 kg
3U box:	12 kg
Shipping Weight:	
1U box:	7.0 kg
3U box:	13 kg
Temperature:	
Operating	0°C to +40°C
Storage	-40°C to +70°C
Warm up time:	15 minutes
Humidity:	85% RH, non-condensing
Safety:	CE Marked, EC61010-1:2010
EMC:	IEC 61326-1:2013
Calibration:	2 years
Warranty:	1 / 3 year warranty plan

ORDERING INFORMATION	
MODEL	DESCRIPTION
LS3081R:	3GHz 1CH Rack-Mounted Analog Signal Generator
LS3082R:	3GHz 2CH Rack-Mounted Analog Signal Generator
LS3084R:	3GHz 4CH Rack-Mounted Analog Signal Generator
LS30816R:	3GHz 16CH Rack-Mounted Analog Signal Generator
LS6081R:	6GHz 1CH Rack-Mounted Analog Signal Generator
LS6082R:	6GHz 2CH Rack-Mounted Analog Signal Generator
LS6084R:	6GHz 4CH Rack-Mounted Analog Signal Generator
LS60816R:	6GHz 16CH Rack-Mounted Analog Signal Generator
LS1291R:	12GHz 1CH Rack-Mounted Analog Signal Generator
LS1292R:	12GHz 2CH Rack-Mounted Analog Signal Generator
LS1294R:	12GHz 4CH Rack-Mounted Analog Signal Generator
LS12916R:	16GHz 4CH Rack-Mounted Analog Signal Generator
OPTIONS	
PLS	Pulse Modulation
PAT	Pattern Modulation
ELP	Extended Low Power (-150dBc)
EPR	Extended Power Range (-130dBc to +27dB)
FS	Fast Switching
EMU	Emulator pack for Keysight, R&S, Anapico & Holzworth
W-Rack	Rack mount kit