

Frequency Synthesizer

16 Independent Outputs/4-16G/CW/Touchscreen

Model: TLFS-4G16G-16-LAN

TLFS-4G16G-16-LAN features excellent signal quality, accurate signal levels, and a wide output power range, delivering a maximum output power of up to 15 dBm over the 4 GHz to 16 GHz frequency band. Equipped with a touchscreen interface, this instrument meets the stringent test requirements for communications, radar and related applications.

Features:

- RF coverage : 4 to 16GHz
- Output Power: 20dBm
- Great Spurious
- 16 Independent Outputs

Applications:

- Defense & federal communications
- Instrumentations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Input Frequency		10		MHz
Input Power		0		dBm
Input Reference Phase Noise		-150		dBc/Hz
Output Frequency	4		16	GHz
Frequency Step		1		Hz
Hopping Time		200		us
Output Power	-20		+20	dBm
Power Step		0.2		dB
Output Power Flatness		±1		dB
Frequency Stability		±0.2		ppm
Frequency Accuracy		±1		ppb
Spurious		-60		dBc
Harmonic@Pout=+20dBm		-20		dBc

Electrical Characteristics:

Parameter		Min	Typ	Max	Units
Phase noise	@100Hz		-80		dBc/HZ
	@1KHz		-85		dBc/HZ
	@10KHz		-90		dBc/HZ
	@100KHz		-95		dBc/HZ
	@1MHz		-110		dBc/HZ
Number of output channels		16(Shared internal/external reference clock)			
Control Mode		RJ45(Ethernet port)			
Impedance			50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Output Connector	SMA Female	
Power Supply	85~264 V AC	
Size	415x290x122	mm

Outline Drawing:

Unit:mm

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Base Number	Description	Revision
TLFS-4G16G-16-LAN	Frequency Synthesizer,4-16G, 16 Independent outputs,CW,Touchscreen	Rev.1.0