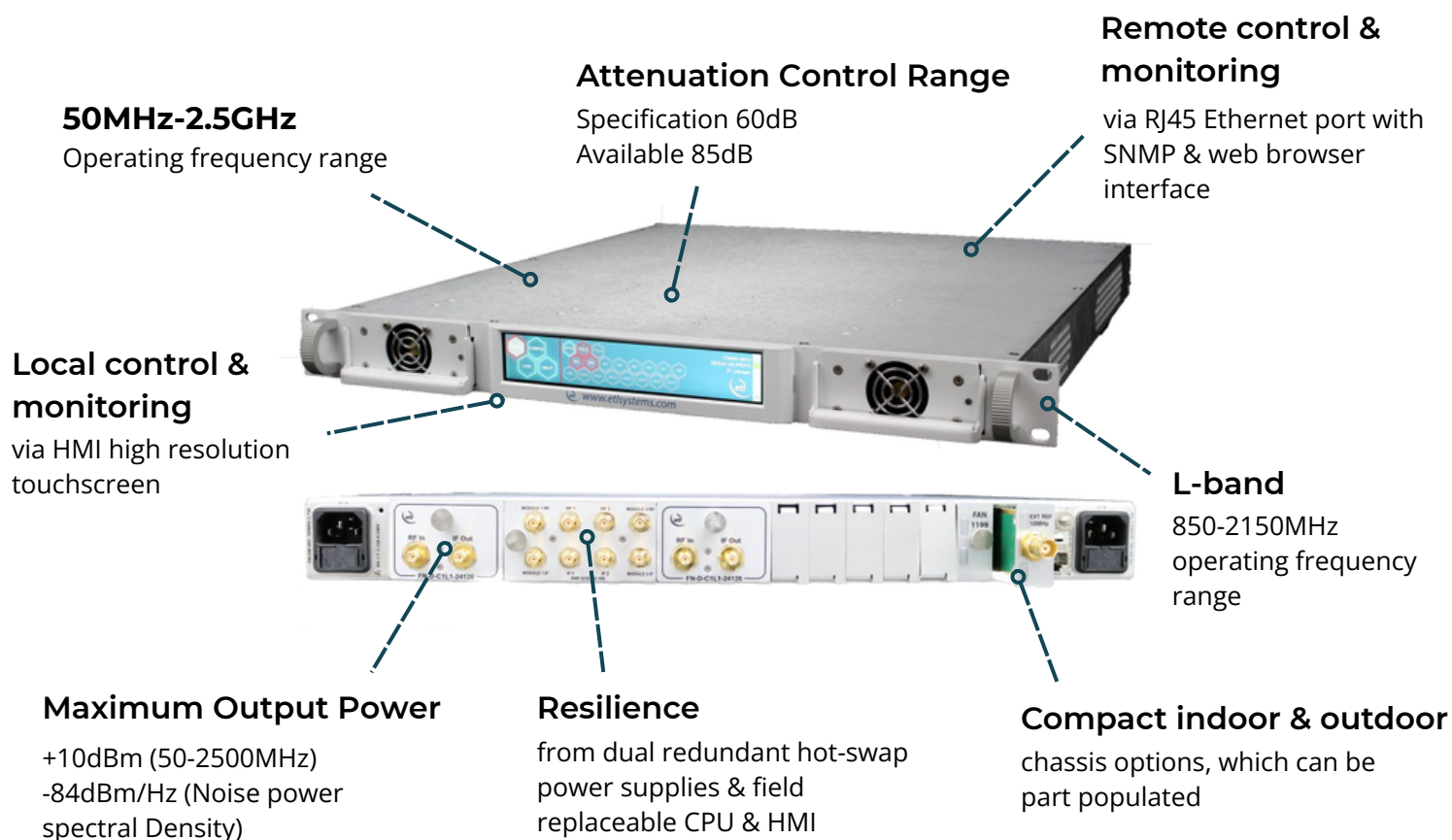


50MHz - 2.5GHz Modular Noise Generator

NG-G1S-B3-03-xxxx 50-2500MHz Noise Generator housed in the Genus 1U chassis. Covering frequency range 50MHz to 2.5GHz in a single band, offering flexibility in a compact and light-weight housing. Remotely controllable via webpage through ethernet port or locally controllable using HMI touchscreen.



Chassis Specification	
Dimensions/Weight/Colour	1U high x 550mm deep x 19" wide / <10kg / RAL9003 - white (semi-matte)
Capacity	17 module slots. Note: Actual modules may require >1 slot. Refer to required module spec table.
Temperature	Operating: 0°C to +45°C Storage: -20°C to +75°C
Location/Humidity/Altitude	Indoor use only / 20 to 90% non-condensing / 2,000m AMSL (Operational) 8,000m AMSL (Storage) Above Mean Sea Level
Control & Monitoring	Local: HMI, capacitive touch screen Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. ETL TCP/IP, SNMPv2/3, HTTPS & built-in web server. HMI and CPU field replaceable.
MTTR	20 minutes (15 minutes to retrieve spare part and 5 mins to replace). Applies to LRUs only and assumed in-house stock.
AC Input/Consumption	85-264Vac 50/60Hz / 275W max. consumption at steady state
PSU Redundancy	Dual redundant and alarmed. Diode OR. Hot swappable.
Input & Output Ports	Dependant upon module fitted

Noise Generator Module - RF Parameters		
Frequency Range	Min	50 MHz
	Max	2.5 GHz
Number of RF Ports		2
Maximum Output Power	50MHz-2500MHz	10 ± 5 dBm
	Noise Power Spectral Density	-84 ± 5 dBm/Hz
Attenuation Control Range	Specification Control Range	60dB
	Available Control Range	85dB (At attenuation settings > 60dB, the noise output power begins to approach the thermal noise floor of -174 dBm/Hz. At > 60dB attenuation settings Noise Output power specifications may not be met.)
Attenuation Steps		0.25 ± 0.25 dB
Attenuator type		Glitch & Dropout free
Output Power Flatness		±3 dB
Signal Inject Port Loss		20 dB
Output Port Return Loss	Typ.	14 dB
	Min.	10 dB
Input Port Return Loss	Typ.	14 dB
	Min.	10 dB
Output Power When Muted		-160 dBm/Hz
Interface		
Control Method		Via chassis
Number of Modules Per Chassis		16
Size		1 slot wide
Output Connector		SMA (F) or BNC(F)
Input Connector (Optional)		SMA (F) or BNC (F)
Maximum Voltage Applied to the Output Connector		50V DC
Environmental		
Operating Temperature		-0°C to +50°C
Storage Temperature		-20°C to +75°C
Location		Indoor use only
Humidity		20 to 90% non-condensing, relative humidity
Altitude		10,000ft / 3,000m above mean sea level
Physical Dimensions & Parameters		
Weight		TBA kg

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.