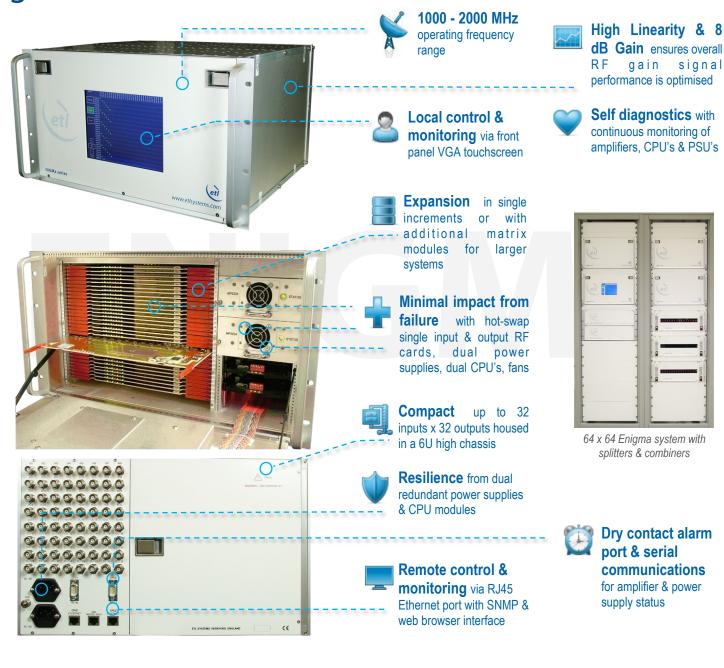


 Typical applications:
 RF content acquisition for TVRO & IPTV headends

Signal monitoring of satellite traffic
Remote controlled unmanned satcom sites

## 32 x 32 L-band Distributive Enigma Switch Matrix / Router with high linearity & 8 dB







www.etlsystems.com



## Model Number: NGM-46-xxxx

## Technical specifications and operating parameters

RF Parameters						
Capacity		32 inputs x 32 outputs, fully populated				
Routing		Distributive (fan-out), non-blocking		Any input can be connected to any number of outputs		
Connectors & impedances		50 Ω SMA	50 Ω BNC	75 Ω BNC	75 Ω F-type	
Frequency Range		1000-2000 MHz (L-band)				
Gain		$8 \pm 2 \text{ dB}$ typical, mean across band				
	1000- 2000MHz	±1.0 dB	±1.0 dB	±1.5 dB	±1.5 dB	
Flatness	Any 125MHz	±0.5 dB	±2.25 dB	±2.5 dB	±2.5 dB	
	Any 10MHz	±0.2 dB	±0.5 dB	±0.75 dB	±0.75 dB	
Input Return Loss	Typical	18 dB	16 dB	14 dB	14 dB	
	Minimum	16 dB	14 dB	12 dB	10 dB	
Output	Typical	18 dB	16 dB	14 dB	14 dB	
Return Loss	Minimum	16 dB	14 dB	12 dB	10 dB	
Isolation	I/P - I/P	60 dB				
Minimum between any 2 ports	0/P - 0/P	60 dB				
	I/P - O/P	50 dB				
Noise Figure		≤21 dB, at room temperature, 20 ± 2°C				
1dB Gain Compression Point		≥10 dBm output power				
OIP3		+22 dBm 3rd order intercept point, output power				
Group Delay		<3 ns across operational bandwidth				
Input RF Power		+ 20 dBm Absolute maximum				

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.

System Control		
Local Control	Touchscreen & VGA Display	
Remote Connection	Via RS232 or RS422/485 serial port and RJ45 Ethernet port on rear panel	
Alarms	Dry contact (D-type) & Ethernet (RJ45)	
SNMP Traps	For alarms & monitoring	
Comms / Power Failure	Retains settings	
Remote Control Software	Available	

Power					
AC Input		85-264Vac 50-60Hz	Fused 2A		
AC Consumption		100W	Max. consumption at steady state		
LNB Power		None			
PSU		Dual redundant & alarmed	Diode OR. Hot swappable		
CPU		Dual redundant	Hot swap		
Hot-swap PSU & CPU		Yes			
MTBF	Chassis	170,740 hours	Chassis excludes HMI & RF cards		
	Switch card	270,297 hours			
	Splitter card	317,227 hours			

	Environmental	
Operating temperature	0 to 45°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	20 to 90% non-condensing	
Physical		
Dimensions	6U high x 450mm deep x 19" wide	
Weight	35 kg	

RAL9003-White (semi-matte)

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Colour





