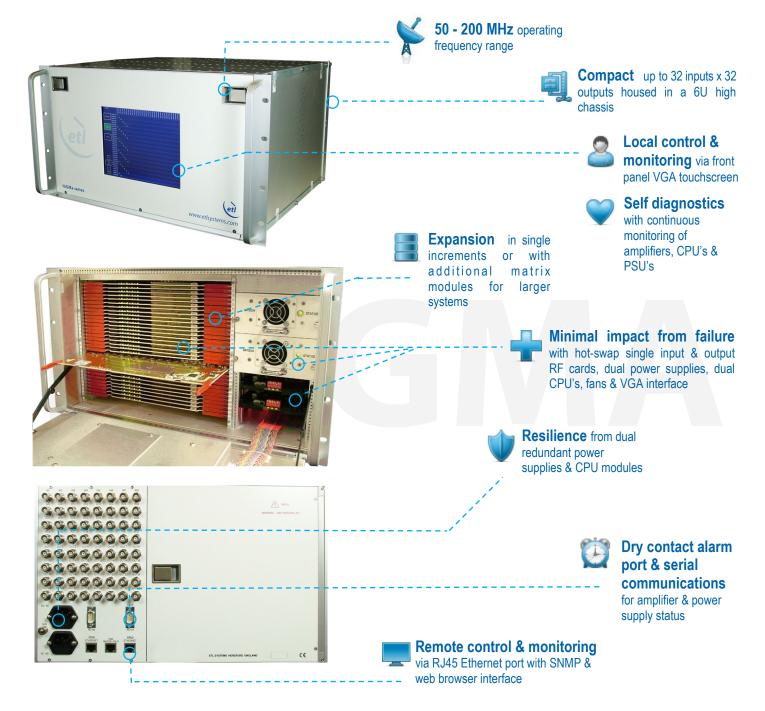


Model Number: NGM-27-xxxx

32 x 32 IF Distributive Enigma Switch Matrix / Router

Typical applications:

- RF content acquisition for TVRO & IPTV headends
- Signal monitoring of satellite traffic
- Remote controlled unmanned satcom sites



















Technical specifications and operating parameters

RF Parameters						
Capacity		32 inputs x 32 outputs, fully populated				
Routing		Distributive (fan-out), DC blocking		Any input can be connected to any number of outputs		
Frequency Range		50-200 MHz (IF)				
Gain		0 ± 1 dB typical, mean across band				
Impedance & RF connectors		50Ω BNC	50Ω SMA	75Ω BNC	75Ω F-type	
Flatness	50-200MHz	±1.0 dB	±1.0 dB	±1.0 dB	±1.2 dB	
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.50 dB	
Input Return Loss		20 dB typ	20 dB typ	12 dB typ	12 dB typ	
Output Return Loss		20 dB typ	20 dB typ	12 dB typ	12 dB typ	
Isolation Minimum between any 2 ports	I/P - I/P	80 dB				
	O/P - O/P	80 dB				
	I/P - O/P	80 dB				
Noise Figure		20 dB Typical, 1 input routed to 1 output				
1dB Gain Compression Point		+5 dBm output power				
OIP3		+16 dBm				

Physical			
Dimensions 6U high x 450mm deep x 19" wide			
Weight	35 kg		
Colour	RAL9003 - White (Semi-Matte)		

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 RS232/485 serial port and RJ45 Ethernet port 10/100 Base T. TCP/IP, SNMP & Web browser interface.		
Alarms	Dry contact (D-type) & Ethernet (RJ45) for PSU & Amp. status		
SNMP Traps	For alarms & monitoring		
Comms / Power Failure	Retains settings		
Remote Control Software	Available		

Power					
PSU Power		85-264Vac 50-60Hz	Fused 2A		
AC Consumption		100W	Max. consumption at steady state		
LNB Power		None			
PSU		Dual redundant & alarmed	Diode OR		
Hot-swap PSU		Yes			
MTBF	Chassis	271,444 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	
Altitude	10,000 feet AMSL	



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