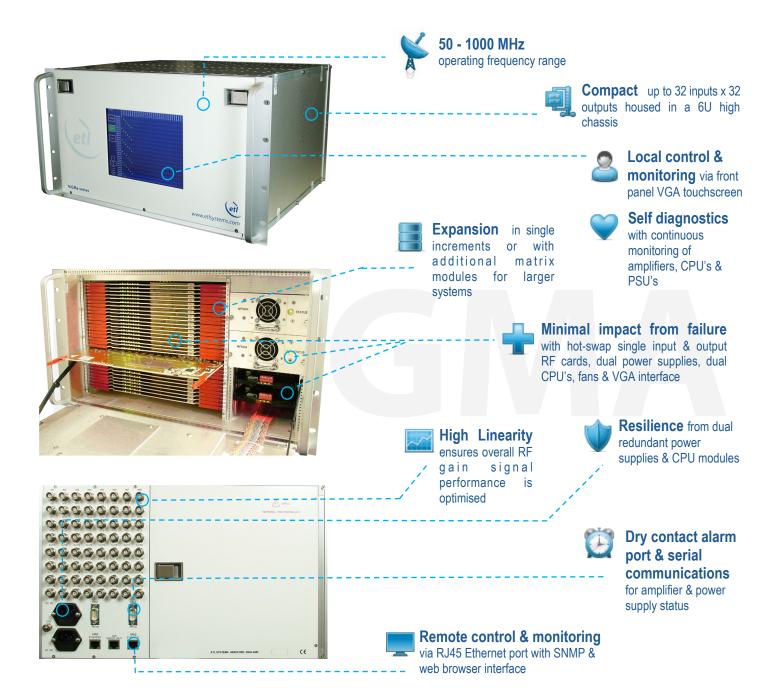


Model Number: NGM-28-xxxx

32 x 32 Broadband Distributive Enigma Switch Matrix / Router with high linearity

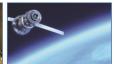
Typical applications:

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



















Model Number: NGM-28-xxxx

32 x 32 Enigma L-band Distributive Switch Matrix / Router with high linearity

Technical specifications and operating parameters

RF Parameters					
Capacity		32 inputs x 32 outputs			
Routing		Distributive (fan-out), non-blocking		Any input can be connected to any number of outputs	
Frequency		50 to 1000MHz			
Connectors & Impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain		0±1 dB	0±1 dB	0±1 dB	0±1 dB
Gain Flatness	Full band	±1.0 dB	±1.0 dB	±1.0 dB	±1.2 dB
	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.5 dB
Input Return	Typical	20 dB	20 dB	12 dB	12 dB
Loss	Minimum	18 dB	18 dB	10 dB	10 dB
Output Return Loss	Typical	18 dB	18 dB	12 dB	12 dB
	Minimum	16 dB	16 dB	10 dB	10 dB
	Input-output	65 dB			
Isolation	Input-input	75 dB			
	Output-output	75 dB			
Noise Figure		25 dB maximum			
1dB Gain Compression Point		+10 dBm (output power)			
OIP3		+20 dBm (3rd order intercept point, output power)			
Group Delay		<1ns (120MHz and above)			
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 RS232/485 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	
PSU		Dual redundant	
Hot-swap PSU		Yes	
AC Consumption		100W (max. consumption at steady state)	
MTBF (hours)	Chassis	170,740	
	Switch Card	270,297	
	Splitter Card	317,227	

Physical		
Dimensions	6U high x 450mm deep x 19" wide	
Weight	35 kg Fully Populated as 32x32	
Colour	White 00-E-55 semi-gloss	

Environmental				
Operating temperature	0 to 45°C			
Location	Indoor use only			
Storage temperature	-20°C to +75°C			
Humidity	20-90% non-condensing			







