

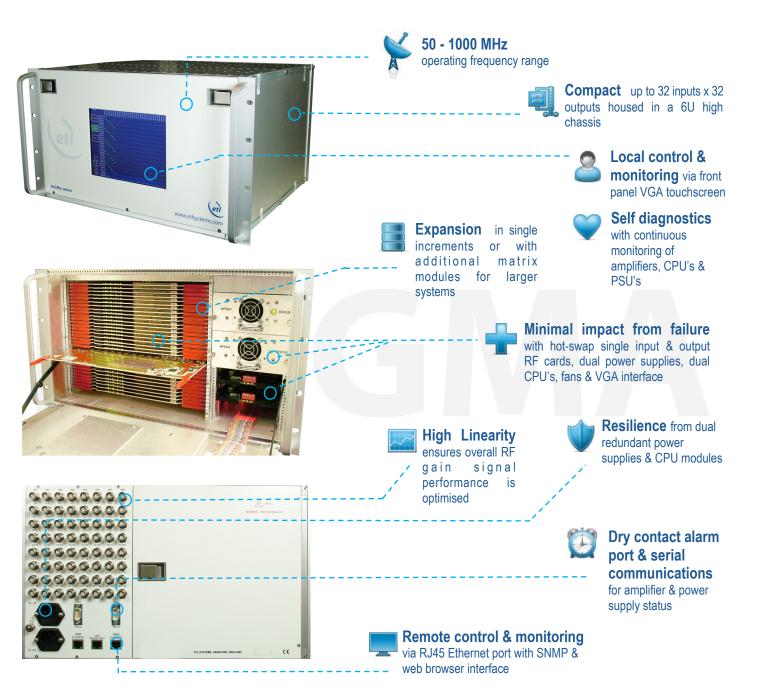
Model Number: NGM-28-xxxx

 Typical applications:
RF content acquisition for TVRO & IPTV headends

Signal monitoring of satellite traffic Remote controlled

unmanned satcom sites

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







Model Number: NGM-28-xxxx

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

		RF Param	eters			
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 Loss	Typical	20 dB	20 dB	12 dB	12 dB	
	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	
Isolation	Input-output	65 dB				
	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 (abs	20 dBm (absolute maximum)			

Technical specifications and operating parameters

	Sys	tem 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		
	Env	vironmental		
Operating temperature		0 to 45°C		
Location		Indoor use only		
Storage temperature		-20°C to +75°C		

Preliminary specifications

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.



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Humidity





20-90% non-condensing

UKAS