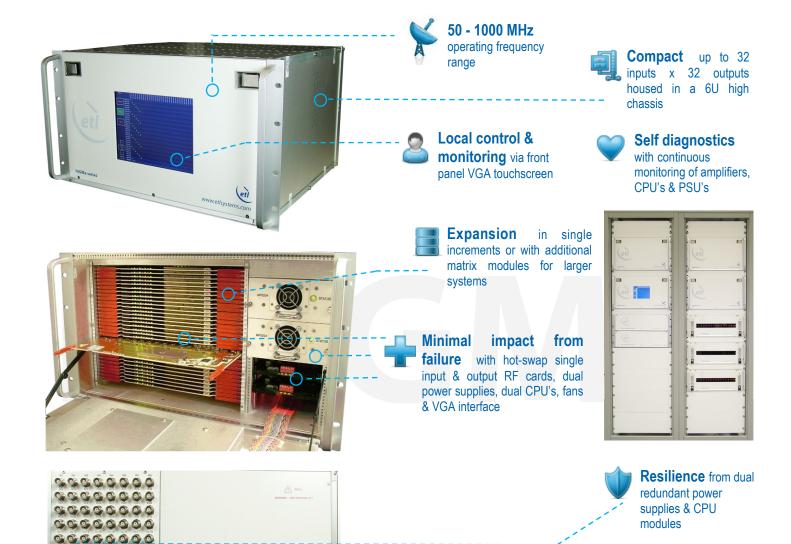


32 x 32 Enigma Broadband Distributive Switch Matrix / Router

Typical applications:

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





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Remote control &

monitoring via RJ45 Ethernet port with SNMP & web browser interface





Dry contact alarm

port & serial communications for amplifier & power

supply status



Model Number: NGM-29-xxxx

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 (Broadband)			
Connectors & Impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
Gain (dB)		0±1 nominal	0±1 nominal	0±1 nominal	0±1 nominal
Gain Flatness	Full band	±1.0 dB	±1.0 dB	±1.5 dB	±1.5 dB
Gaiii i iauless	Any 36MHz	±0.25 dB	±0.25 dB	±0.5 dB	±0.5 dB
Input Return Loss	Typical	20 dB	20 dB	14 dB	14 dB
	Min.	16 dB	16 dB	12 dB	10 dB
Output Return Loss	Typical	20 dB	20 dB	14 dB	14 dB
	Min.	16 dB	16 dB	12 dB	10 dB
Isolation	Input-output	75 dB			
	Input-input	75 dB			
	Output-output	65 dB			
Noise Figure		20 dB typical			
1dB Gain Compression Point		+5 dBm at unity gain			
OIP3 (dBm)		Typ. 19dBm, min 16dBm			
Group Delay		<1ns			
Input RF Power		+20 dBm Absolute Maximum			

Environmental		
Operating temperature	0 to 45°C	
Location	Indoor use only	
Storage temperature	-20°C to +75°C	
Humidity	20-90% non-condensing	
Altitude	10,000 feet AMSL	

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		
PSU		Dual redundant		
AC Input		85-264Vac 50/60Hz		
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			
CPU Redundancy	Dual Redundant		
PSU Redundancy	Dual Redundant and Alarmed		
Dimensions	6U high x 450mm deep x 19" wide		
Weight	29 kg Fully Populated as 32x32		
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.

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