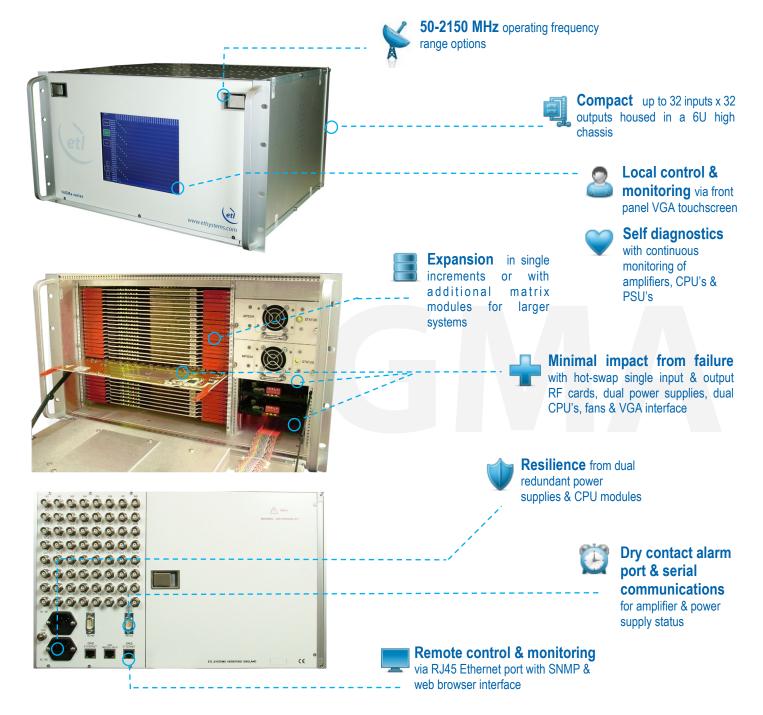


32 x 32 IF & L-band Distributive Enigma Switch Matrix / Router

Typical applications:

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



















Model Number: NGM-25-xxxx

Technical specifications and operating parameters

			RF Parame	ters		
Capacity		32 inputs x 32 outputs, fully populated				
Routing		Distributive (fan-out), Any input can be connected to any number of outputs				
Impedance & RF connectors		rs	50Ω SMA / 50Ω BNC / 75Ω BNC / 75Ω F-type			
Gain (dB)		0 ± 1 typical, mean across band				
Noise Figure (dB)		23 Typical, 1 input routed to 1 output				
1dB Gain Compression Point (dBm)		3.5 output power				
Frequency Range MHz (L-Band)		50-200	950-1750	950-1950	850-2150	
Isolation (dB)	Input-o	utput	65	65	60	60
	Input-in	put	75	75	70	70
	Output-	-output	75	75	70	70
50 ohm BNC Specifications		NGM-25-B5B5 (all ports 50 ohm BNC)				
Flatness: operational band width (dB)		width (dB)	± 1.0	± 1.0	± 1.25	± 1.5
Flatness: any 36M	Hz (dB)		± 0.35	± 0.25	± 0.25	± 0.25
Input Return	Typical		21	18	18	17
Loss (dB)	Minimu	m	18	16	16	14
Output Return	Typical		22	18	17	16
Loss (dB)	Minimu	m	18	15	15	14
50 ohm SMA Specifications		NGM-25-S5S5 (all ports 50 ohm SMA)				
Flatness: operational band width (dB)		± 1.0	± 1.0	± 1.25	± 1.25	
Flatness: any 36MHz (dB)		± 0.25	± 0.20	± 0.20	± 0.25	
Input Return	Typical		22	18	17	16
Loss (dB)	Minimum		18	16	16	14
Output Return	Typical		22	18	18	17
Loss (dB)	Minimum		18	16	16	15
75 ohm BNC Specifications		NGM-25-B7B7 (all ports 75 ohm BNC)				
Flatness: operation	nal band	width (dB)	± 1.2	± 1.02	± 1.5	± 2
Flatness: any 36MHz (dB)		± 0.25	± 0.25	± 0.25	± 0.30	
Input Return	Typical		12	12	10	10
Loss (dB)	Minimum		9	9	8	8
Output Return	Typical		18	18	16	15
Loss (dB)	Minimum		14	14	12	12
75 ohm F-type Specifications		ns	NGM-25-F7F7 (all ports 75 ohm F-type)			
Flatness: operational band width (dB)			± 1.2	± 1.02	± 1.5	± 2
Flatness: any 36MHz (dB)			± 0.25	± 0.35	± 0.35	± 0.40
		Typical	10	9	9	9
Input Return Loss	(dB)	Minimum	9	8	8	8
		Typical	15	15	14	12
Output Return Loss (dB		Minimum	12	12	9	9
			1	1	1	1

	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	

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	29 kg, fully populated			
Colour	RAL9003 - White (Semi-Matte)			

Power					
PSU Power	85-264Vac 50-60Hz	Fused 2A			
LNB Power	None				
PSU	Dual redundant & alarmed	Diode OR			
Hot-swap PSU	Yes				

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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