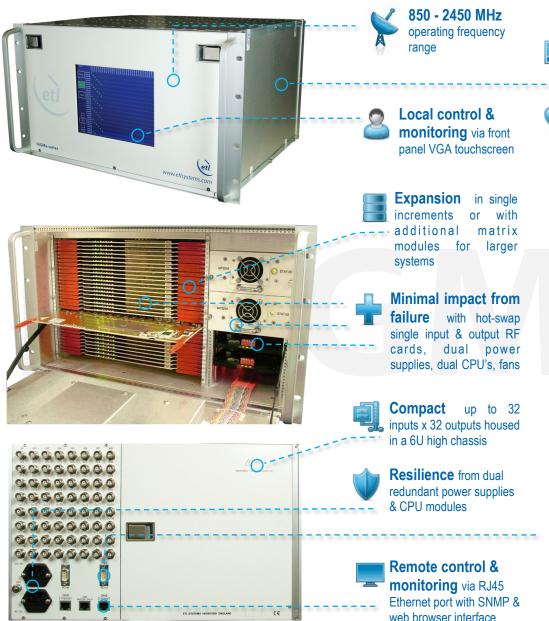


Model Number: NGMC-45-xxxx

32 x 32 Enigma Extended L-band Combining Switch Matrix / Router with variable gain

Typical applications:

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





Variable gain ensures overall RF gain signal performance is optimised



Self diagnostics with continuous monitoring of amplifiers, CPU's & PSU's



64 x 64 Enigma system with splitters & combiners



Dry contact alarm port & serial communications for amplifier & power supply status

















Model Number: NGMC-45-xxxx

Technical specifications and operating parameters

RF Parameters					
Capacity		32 inputs x 32 outputs			
Routing		Combining (fan out), non-blocking		Any input can be connected to any number of outputs	
Frequency		850 to 2450MHz			
Connector & Impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type
	Max	0±1 dB	0±1 dB	0±1 dB	0±1 dB
Gain	Min	-10±1 dB	-10±1 dB	-10±1 dB	-10±1 dB
	Steps	1±0.15 dB			
Gain flatness (dB)	850-2150 MHz	± 1.0 dB	± 1.0 dB	± 1.5 dB	± 1.5 dB
	850-2450 MHz	± 2.25 dB	± 2.25 dB	± 2.5 dB	± 2.5 dB
	Any 36 MHz	± 0.5 dB	± 0.5 dB	± 0.75 dB	± .75 dB
	Typical	18 dB	16 dB	14 dB	14 dB
Input Return Loss	Min @ 2150 MHz	15 dB	14 dB	12 dB	10 dB
L033	Min @ 2450 MHz	10 dB	10 dB	8 dB	8 dB
	Typical	18 dB	16 dB	14 dB	14 dB
Output Return Loss	Min @ 2150 MHz	15 dB	14 dB	12 dB	10 dB
	Min @ 2450 MHz	10 dB	10 dB	8 dB	8 dB
	Input-output	55 dB			
Isolation	Input-input	60 dB			
	Output-output	60 dB			
Noise Figure	Max gain	20 dB		1dB gain compression point, output power	
	Min gain	30 dB			
1dB Gain Compression Point	Max gain	+5 dBm			
	Min gain	0 dBm			
OIP3	Max gain	+15 dBm			
	Min gain	+10 dBm			
Group delay		<2ns		Across operational bandwidth	

System Control			
Local Control	Touchscreen & VGA Display		
Remote Connection	Via RS232/485 serial port and RJ45 Ethernet		
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 and alarmed	Diode OR. Hot swappable	
CPU		Dual redundant	Hot swappable	
Hot-swap PSU		Yes		
Input RF Power		+20 dBm Absolute Maximum		
AC Consumption		100W (max. consumption at steady state)		
	Chassis	170,740		
MTBF (hours)	Switch Card	270,297	Chassis excludes	
(12.5)	Combiner Card	317,227	HMI and RF cards	

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

Physical		
Dimensions	6U high x 450mm deep x 19" wide	
Weight	35 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.



Esatcom Inc www.esatcom.com Tel: 718.276.0800









