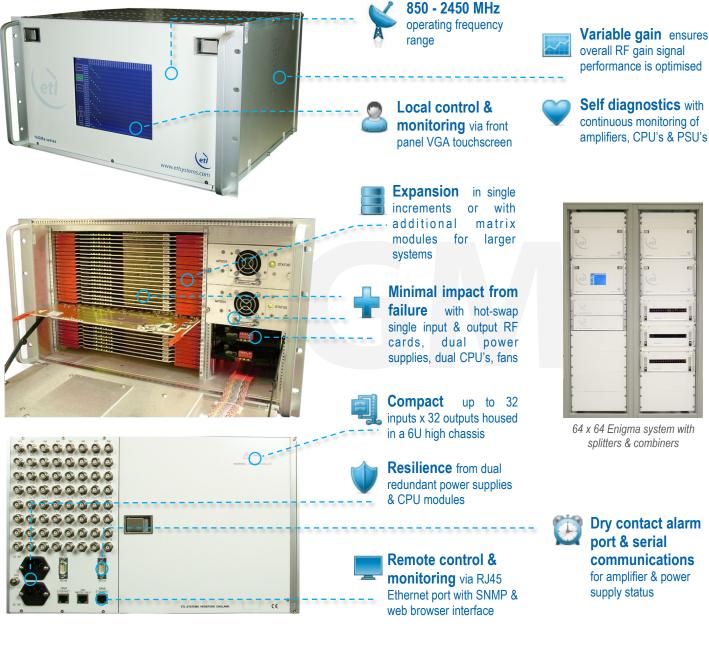


32 x 32 Enigma Extended L-band Combining Switch Matrix / Router with variable gain



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











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Model Number: NGMC-45-xxxx

Technical specifications and operating parameters

RF Parameters						System Control			
Capacity		32 inputs x 32 outputs				Local Control		Touchscreen & VGA Display	
Routing				Any input can be connected to any number of outputs		Remote Connection		Via RS232/485 serial port and RJ45 Ether- net	
Frequency		850 to 2450MHz				Alarms		Dry contact (D-type) & Ethernet (RJ45) for PSU & Amp. status	
Connector & Impedances		50Ω SMA	50Ω BNC	75Ω BNC	75Ω F-type	SNMP Traps		For alarms & monitoring	
Gain	Max	0±1 dB	0±1 dB	0±1 dB	0±1 dB	Comms / Power Failure		Retains settings	
	Min	-10±1 dB	-10±1 dB	-10±1 dB	-10±1 dB	Remote Control Software		Available	
	Steps	1±0.15 dB				Remote Control Sc	niwale	Available	
Gain flatness (dB)	850-2150 MHz	± 1.0 dB	± 1.0 dB	± 1.5 dB	± 1.5 dB			Power	
	850-2450 MHz	± 2.25 dB	± 2.25 dB	± 2.5 dB	± 2.5 dB	PSU Power		85-264Vac 50/60Hz	Fused 2A
	Any 36 MHz	± 0.5 dB	± 0.5 dB	± 0.75 dB	± .75 dB	PSU		Dual redundant and alarmed	Diode OR. Hot swappable
Input Return Loss	Typical	18 dB	16 dB	14 dB	14 dB	CPU		Dual redundant	Hot swappable
	Min @ 2150 MHz	15 dB	14 dB	12 dB	10 dB	Hot-swap PSU		Yes	
	Min @ 2450 MHz	10 dB	10 dB	8 dB	8 dB	Input RF Power		+20 dBm Absolute Maximum	
Output Return Loss	Typical	18 dB	16 dB	14 dB	14 dB	AC Consumption		100W (max. consumption at steady state)	
	Min @ 2150 MHz	15 dB	14 dB	12 dB	10 dB		Chassis	170.740	Chassis excludes
	Min @ 2450 MHz	10 dB	10 dB	8 dB	8 dB		Switch Card	270,297	
Isolation	Input-output	55 dB			MTBF (hours)	Combiner	317.227	HMI and RF cards	
	Input-input	60 dB				Card	317,227		
	Output-output	60 dB				Environmental			
Noise Figure	Max gain	20 dB 30 dB		1dB gain compression point, output power		Operating temperature		0 to 45°C	
	Min gain					Location		Indoor use only	
1dB Gain Compression Point	Max gain	+5 dBm			Storage temperature		-20°C to +90°C		
	Min gain	0 dBm			Humidity		20-90% non-condensing		
0100	Max gain	+15 dBm				Altitude		10,000 feet AMSL	
OIP3	Min gain	+10 dBm				Physical			
Group delay		<2ns		Across operational bandwidth		Dimensions		6U high x 450mm deep x 19" wide	
						Weight		35 kg Fully Populate	

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.

ETL SYSTEMS LIMITED Coldwell Radio Station Madley Hereford England HR2 9NE TELEPHONE +44 (0)1981 259020

EMAIL info@etlsystems.com

FACSIMILE +44 (0)1981 259021

WEB www.etlsystems.com



Colour





RAL9003 White semi-matte

