

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

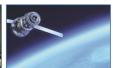
## **Typical applications:**

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













Ethernet port with SNMP & web browser interface







## Model Number: NGMC-25-xxxx

## Technical specifications and operating parameters

RF Parameters						
Frequency		50-200 MHz	950-1750 MHz	950-1950 MHz	850-2150 MHz	
All connector types, frequency dependant						
Isolation	1/0	65 dB	65 dB	60 dB	60 dB	
	1/1	75 dB	75 dB	70 dB	70 dB	
	0/0	75 dB	75 dB	70 dB	70 dB	
NGMC-25-B5B5 (all ports 50 ohm BNC)						
Flatness	Operational bandwidth	±1.0 dB	±1.0 dB	±1.25 dB	±1.5 dB	
	Any 36MHz	±0.35 dB	±0.25 dB	±0.25 dB	±0.25 dB	
Input return	Typical	22 dB	18 dB	18 dB	17 dB	
loss	Minimum	18 dB	16 dB	16 dB	14 dB	
Output return	Typical	22 dB	18 dB	17 dB	16 dB	
loss	Minimum	18 dB	16 dB	16 dB	14 dB	
NGMC-25-S5S5 (all ports 50 ohm SMA)						
<b>-</b>	Operational bandwidth	±1.0 dB	±1.0 dB	±1.25 dB	±1.25 dB	
Flatness	Any 36MHz	±0.25 dB	±0.20 dB	±0.20 dB	±0.25 dB	
Input return	Typical	22 dB	18 dB	17 dB	16 dB	
loss	Minimum	18 dB	16 dB	16 dB	14 dB	
Output return	Typical	22 dB	18 dB	18 dB	17 dB	
loss	Minimum	18 dB	16 dB	16 dB	15 dB	
	NGM	IC-25-B7B7 (all p	orts 75 ohm BNC)			
Flatness	Operational bandwidth	±1.2 dB	±1.02 dB	±1.5 dB	±2.0 dB	
riatriess	Any 36MHz	±0.25 dB	±0.25 dB	±0.25 dB	±0.30 dB	
Input return los	ss, Typical	12 dB	12 dB	10 dB	10 dB	
Output return I	oss, Typical	18 dB	18 dB	16 dB	15 dB	
	NGMC	-25- F7F7 (all po	rts 75 ohm F-types	s)		
Eletnose	Operational band width	±1.2 dB	±1.02 dB	±1.5 dB	±2 dB	
Flatness	Any 36MHz	±0.25 dB	±0.35 dB	±0.35 dB	±0.40 dB	
Input Return L	oss, Typical	10 dB	8 dB	8 dB	8 dB	
Output Return	Loss, Typical	15 dB	15 dB	14 dB	12 dB	
		ALL VER	SIONS			
Gain		0 ± 1 dB		Mean across band		
1dB	Typical	3.5 dBm		- At unity gain		
Compression	Minimum	0 dBm				
Noise figure	Typical	23 dB				
	Maximum	26 dB				

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 Diode OR	
Hot-swap PSU		Yes	
Input RF Power		+20 dBm Absolute Maximum	
AC Consumption		100W (max. consumption at steady state)	
	Chassis	271,444	
MTBF (hours)	Switch Card	270,297	
( /	Combiner Card	317,227	

Physical		
Dimensions	6U high x 450mm deep x 19" wide	
Weight	35 kg Fully Populated as 32x32	
Colour	RAL9003 White semi-matte	

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		

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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