

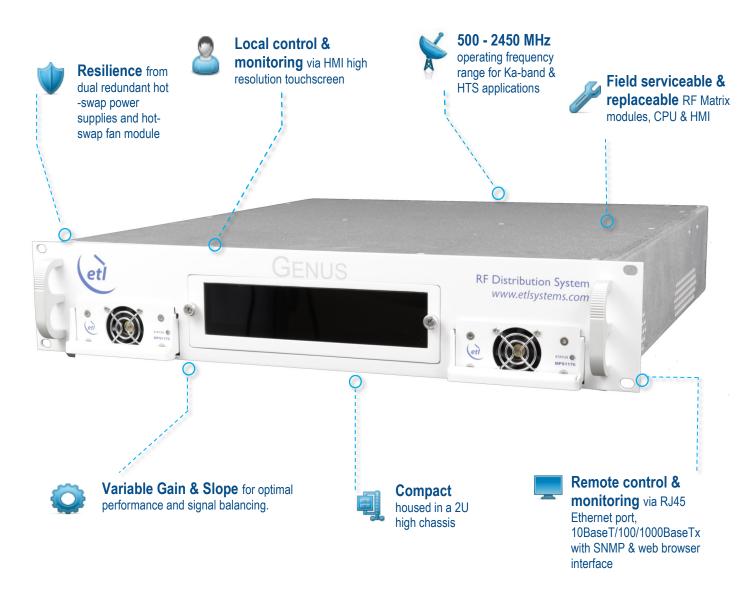
## Hawk Series 32 x 8 Combining Extended L-Band Matrix For

## **Uplink applications**

## **Typical applications:**

- Small Ka/HTS gateway terminals
- LEO gateways
- Oil & Gas
- Deployable VSAT terminals

8x32 Combining extended L-Band Matrix with output variable gain/slope/RF detection. Ideally suited to for smaller to mid-size gateways with multiple modems and a smaller numbers of antennas, where modem redundancy is required, or remotely accessed teleports / gateways.





















		RF Parameters
Frequency Range		500 to 2450 MHz (Extended L-Band)
Capacity		32 x 8 Combining
Switching Time		< 50 ms (From receipt of a command to implementation of path change)
RF Power Sensing Range		0 to −50 dBm (At each output)
Switching Time		<50 ms
AC Input		85-264Vac 50/60Hz
AC Consumption		100W
Input & Output Ports		$50\Omega$ SMA (All ports DC Blocked)
Input RF Power (Absolute maximum)		+24 dBm
Gain (typical, mean across band, at each output)	Max	15±1 dB
	Min	-10±1 dB
Gain Step Resolution		0.5±0.25dB
Gain Flatness		±1.5 dB
Any 36MHz		±0.25 dB
Input Return Loss		Typical: 18 dB, Minimum 2GHz: 14 dB, Minimum 2.45GHz: 12 dB
Output Return Loss		Typical: 18 dB, Minimum 2GHz: 14 dB, Minimum 2.45GHz: 12 dB
Isolation Minimum between any 2 ports	Input-Input	60 dB
	Output- Output	60 dB
	Input-Output	55 dB <2150MHz, 50 dB >2150MHz
Noise Figure		Min gain: 28 dB, Unity gain: 28 dB, Max gain: 28 dB
1dB GCP (1dB Gain Compression point, output power @ 0dB slope setting)	Min gain	-5 dBm
	Unity gain	+5 dBm
	Max gain	+15 dBm
OIP3 (3rd order intercept point @ 0dB slope setting)	Min gain	Typical 10 dBm, Minimum 7 dBm
	Unity gain	Typical 20 dBm, Minimum 17 dBm
	Max gain	Typical 30 dBm, Minimum 27 dBm
Spec Version		0.1

		Redundancy & Hot Swap		
PSU Redundancy		Dual redundant and alarmed		
CPU Redundancy		N/A		
Matrix card		Field replaceable		
		Control & Monitoring		
Local Control & Monitoring		НМІ		
Remote Control & Monitoring		Ethernet via RJ45, 10BaseT/100 Base Tx. ETL TCP/IP protocol, SNMP, Built-in Web server		
System Control & Reliability				
MTTR		20 minutes 15 minutes to retrieve spare part and 5 mins to replace.		
MTBF (hours)	Chassis Matrix Card CPU	>250,000 >250,000 >250,000		
Environmental				
Operating Temperature		0 to 45°C		
Gain Variation vs Temperature		0.05dB/°C		
Storage Temperature		-20°C to +75°C		
Location		Indoor use only		
Humidity		20 to 90% non-condensing		
Altitude (operational)		2,000m AMSL		
Altitude (storage)		8,000m AMSL		
Physical				
Weight		<10 kg		
Dimensions		2U high x 550mm deep x 19" wide		
Front Panel 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.









