

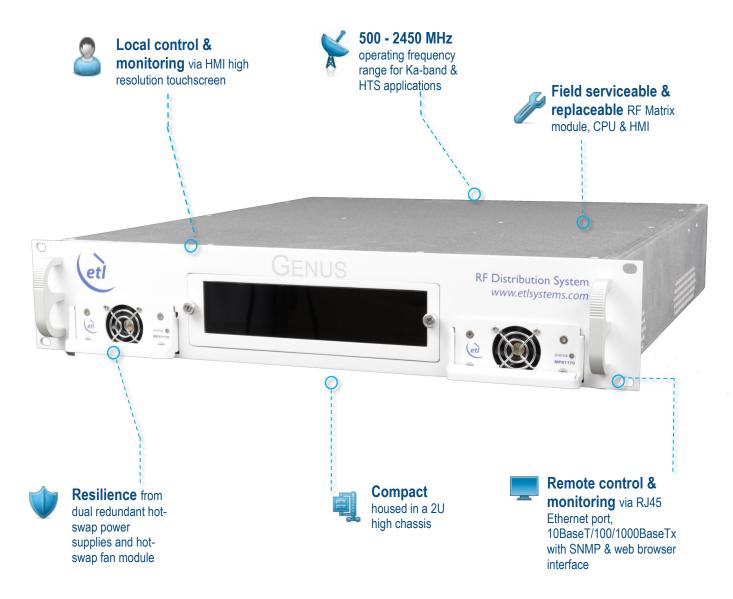
Hawk Series 8 x 32 Distributive Extended L-Band Matrix For

Downlink applications

Typical applications:

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

8x32 Distributive extended L-Band Matrix. 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		8 x 32 Distributive
Switching Time		< 50 ms (From receipt of a command to implementation of path change)
AC Input		85-264Vac 50/60Hz
AC Consumption		100W
Input & Output Ports		50Ω SMA (All ports DC Blocked)
Input RF Power (Absolute maximum)		+24 dBm
Gain (typical, mean across band)		0±1 dB
Gain Flatness		±1.5 dB
Any 36MHz		±0.25 dB
Input Return Loss		Typical: 18 dB, Minimum 2GHz: 14 dB, Minimum 2.45GHz: 12dB
Output Return Loss		Typical: 18 dB, Minimum 2GHz: 14 dB, Minimum 2.45GHz: 12dB
Isolation Minimum between any 2 ports	Input-Input	60 dB
	Output- Output	60 dB
	Input-Output	55 dB <2150MHz, 50 dB >2150MHz
Noise Figure		14 dB (Typical, with one input routed to one output)
1dB GCP (1dB Gain Compression point, output power)		0 dBm
OIP3 (3rd order intercept point)		Typical 18 dBm, Minimum 16 dBm
Group Delay		<1.0 ns across operational bandwidth
Spurious		<80 dBm (Inband)
Spec Version		0.1

		Redundancy & Hot Swap		
PSU Redundancy		Dual redundant and alarmed		
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CPU Redundancy		N/A		
Matrix card		Field replaceable		
		Control & Monitoring		
Local Control & Monitoring		HMI Capacitive Touch Screen		
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.









