

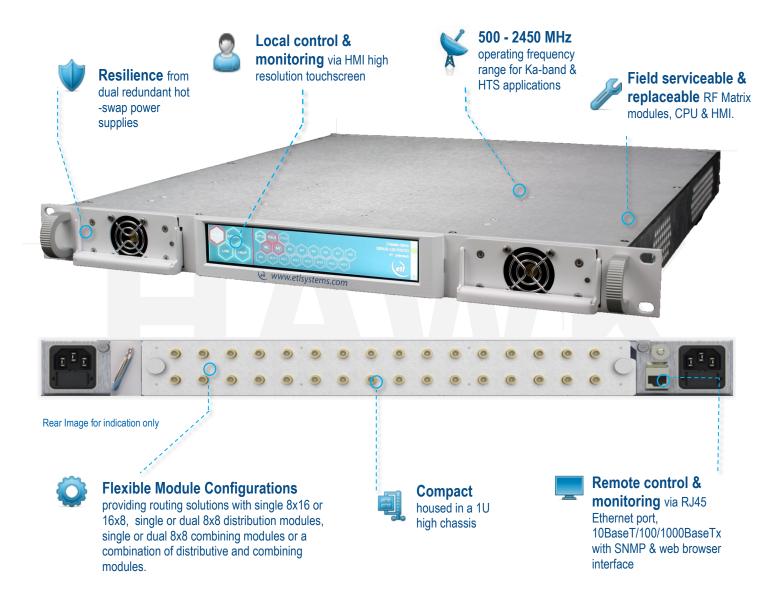
Model Number: HWK-G1S-10-C168

Hawk Series 16 x 8 Extended L-band Matrix Fan-in for uplink applications.

Typical applications:

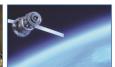
- Small Ka/HTS gateway terminals
- LEO gateways
- Oil & Gas
- Deployable VSAT terminals

The 1U Hawk Matrix has capacity for two field replaceable matrix cards – which can be combining (fan-in) or distributive (fan-out) – for uplink and downlink applications. The Hawk can be fitted with any combination of cards depending on application, but is ideally suited for smaller gateways with multiple modems and one or two antennas. Single or dual 8x8 fan-out or fan-in, and single 8x16 fan-out configurations are also available - please enquire.

















V 1.3 E&OE www.etlsystems.com

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		RF Parameters
Routing		HWK-G1S-10- Combining
Frequency Range		500 to 2450 MHz (Extended L-band)
Capacity		16 x Input and 8 x Output.
Switching Time		< 50ms (From receipt of a command to implementation of path change)
Input & Output Ports		50Ω SMA (All ports DC Blocked)
Gain		0±1 dB typical, mean across band
Gain Flatness	<2150 MHz	±1.25 dB
	Full Band	±2.0 dB
Any 36MHz	<2150 MHz	±0.25 dB
	Full Band	±0.5 dB
Input Return Loss		Typical: 18 dB, Minimum: 12 dB
Output Return Loss		Typical: 18 dB, Minimum: 16 dB
Isolation	Input-Input	60 dB
Isolation Minimum between any 2 ports	Output-Output	60 dB
	Input-Output	55 dB <2150MHz, 50 dB >2150MHz
Noise Figure		24 dB typical , with one input routed to one output
1dB GCP Gain Compression Point, output power	<850 MHz	+12 dBm
	<2000 MHz	+10 dBm
	>2000 MHz	+6 dBm
OIP3 3rd order intercept point	<1500 MHz	Typical 28 dBm, Minimum 25 dBm
	>1500 MHz	Typical 25 dBm, Minimum 20 dBm
Group Delay		<1.0 ns across operational bandwidth
AC Input / AC Consumption		AC Input: 85-264Vac 50/60Hz AC Consumption: 150W
Input RF Power		+20 dBm Absolute Maximum.
Spec Version		1.0
		System Control & Reliability
Local Control		HMI capacitive touch screen: Field replaceable
Remote Control & Monitoring		Ethernet via RJ45, 10BaseT/100 Base Tx. ETL TCP/IP, SNMP & Web browser interface.
PSU Redundancy		Dual redundant and alarmed Diode OR. Hot swappable
Matrix Card		Field replaceable
CPU		Field replaceable
MTTR		20 minutes (15 minutes to retrieve spare part and 5 mins to replace) Applies to LRUs only and assumed in house stock

	Physical & Environment
Dimensions	1U high x 550mm deep x 19" wide
Weight / Colour	<10 kg / RAL9003—White (Semi-matte)
Temperature	Operating: 0 to 45°C / Storage: -20°C to +75°C
Location	Indoor use only
Humidity	20 to 90% non-condensing
Altitude	2,000m AMSL (Operational) 8,000m AMSL (Storage) Above Mean Sea Level

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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Chassis, Switch Card & CPU:





(TBC)





MTBF