

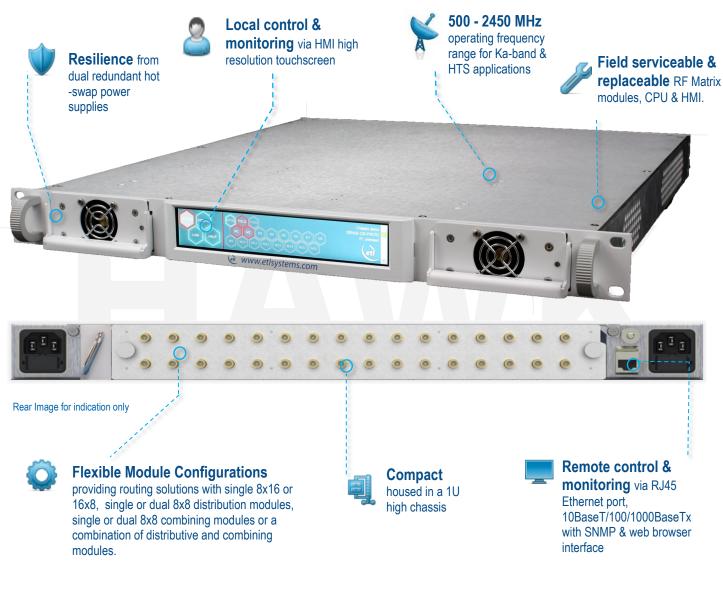
## Model Number: HWK-G1S-10-D816

# Hawk Series 8 x 16 Extended L-band Matrix Fan-out for downlink applications.

### **Typical applications:**

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

The 1U Hawk Matrix has capacity for up to 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 single16x8 fan-in configurations are also available - please enquire.







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#### Technical specifications and operating parameters

		RF Parameters
Routing		HWK-G1S-10 - Distributive Any input can be connected to any number of outputs
Frequency Range		500 to 2450 MHz (Extended L-band)
Capacity		8 x Input and 16 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		±1.5 dB
Any 36MHz		±0.25 dB
Input Return Loss		Typical: 20 dB, Minimum: 18 dB
Output Return Loss		Typical: 18 dB, Minimum: 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		14 dB typical, 16 dB maximum, with one input routed to one output.
1dB GCP Gain Compression Point, output power	<850 MHz	+2 dBm
	<1500 MHz	+3 dBm
	>1500 MHz	+5 dBm
OIP3 3rd order intercept point	<1500 MHz	Typical 18 dBm, Minimum 16 dBm
	>1500 MHz	Typical 20 dBm, Minimum 17 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/100/1000BaseTx. 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
MTBF		Chassis, Switch Card & CPU: >250,000
		Physical & Environment
Dimensions		1U high x 600mm 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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