

Model Number: HWK-G1S-15-C44/ HWK-G1S-15-D44

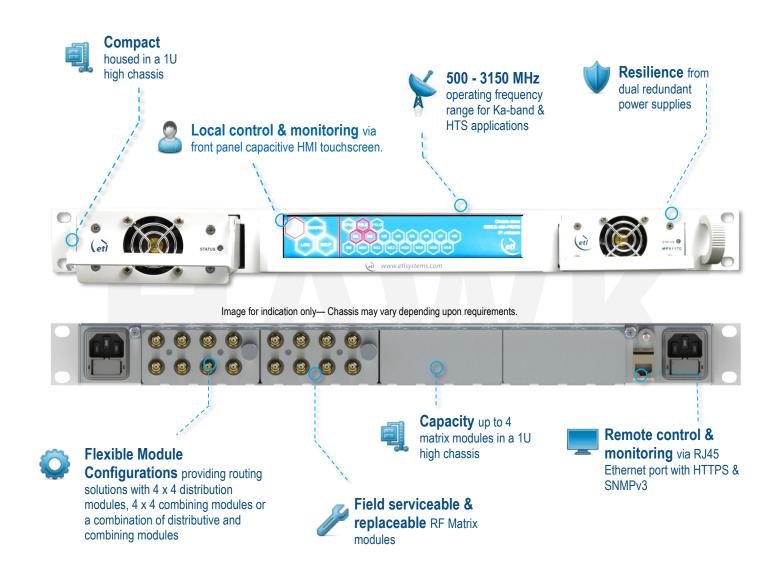
Hawk Series 4 x 4 Extended L-band Matrix

For Uplink & Downlink applications

The 1U Genus chassis has capacity for up to 4 off 4x4 Hawk matrix modules – which can be combining (fan-in) or distributive (fan-out) – for uplink and downlink applications. The Genus chassis can be fitted with any combination of modules depending on application, but is ideally suited for smaller LEO gateways with small number of modems, where modem redundancy is required, smaller number of modems and antennas and remotely accessed teleports. Other module types from the Genus range such as Frequency Converters or RF over Fibre can also be fitted into the chassis.

Typical applications:

- Ka/HTS gateway terminals
- LEO gateways
- Small teleports
- Uplink and downlink applications
- Oil & Gas
- Deployable VSAT terminals

















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Model Number: HWK-G1S-15-C44/ HWK-G1S-15-D44

		RF Parameters
Routing		Distributive
Frequency Range		500 to 3150 MHz (Extended L-band)
Capacity		Up to 4 matrix modules in 1U parent chassis – each 4 x Input and 4 x Output.
Switching Time		< 50ms (From receipt of a command to implementation of path change)
Power Consumption		<5W
RF Connectors		50 Ω SMA
Gain (dB) Typ, mean across band		0±1
Gain Flatness (dB)	850-2450 MHz	±0.75
	500-3150 MHz	±2.0
	850-2450 MHz	±0.15
Any 36 MHz	500-3150 MHz	±0.25
Input Return	Тур.	14
Loss (dB)	Min	10
Output Return	Тур.	14
Loss (dB)	Min	10
Isolation (dB)	Input-Input	55 dB
Min. between	Output-Output	55 dB
any two ports	Input-Output	50 dB
Noise Figure (dB)	850-2450 MHz	Typ. 7 dB, with one input routed to one output
(ub)	500-3150 MHz	Typ. 9 dB, with one input routed to one output
1dB GCP	850-2450 MHz	+0 dBm
(dBm) Output power, Typical.	500-3150 MHz	-3 dBm
OIP3 (dBm),	850-2450 MHz	+ 15 dBm
Typical.	500-3150 MHz	+12dBm
OIP2 (dBm) ,Typical.		+ 22 dBm
Group Delay		<1.0 ns
PSU Redundancy		Dual redundant and alarmed Diode OR.
Matrix Module		Distributive: Field replaceable
		System Control
Remote Control	& Monitoring	Ethernet via RJ45 with HTTPS & SNMPv3, 10BaseT/100 Base Tx. ETL TCP/IP, SNMP & Web browser interface. Via parent chassis
		Physical & Environment
Dimensions		4 x Genus 1U slots
Weight / Colour		<0.5 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		2,000 feet AMSL (Operational) 8,000 feet AMSL (Storage) Above Mean Sea Level
Spec Version		1.1

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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Model Number: HWK-G1S-15-C44/ HWK-G1S-15-D44

		RF Parameters
Routing		Combining
Frequency Range		500 to 3150 MHz (Extended L-band)
Capacity		Up to 4 matrix modules in 1U parent chassis— each 4 x Input and 4 x Output.
Switching Time		< 50ms (From receipt of a command to implementation of path change)
Power Consumption		<5W
RF Connectors		50 Ω SMA
Gain (dB) Typ, mean across band		0±1
Gain Flatness	850-2450 MHz	±1.0
(dB)	500-3150 MHz	±2.5
	< 2150 MHz	±0.15
Any 36 MHz	> 2150 MHz	±0.25
Input Return	Тур.	14
Loss (dB)	Min	10
Output Return	Тур.	14
Loss (dB)	Min	10
Isolation (dB)	Input-Input	55 dB
Min. between	Output-Output	55 dB
any two ports	Input-Output	50 dB
Noise Figure	850-2450 MHz	Typ. 22 dB, with one input routed to one output
(dB)	500-3150 MHz	Typ. 25 dB, with one input routed to one output
1dB GCP	850-2450 MHz	+15 dBm
(dBm) Output power, Typical.	500-3150 MHz	+12 dBm
OIP3 (dBm),	850-2450 MHz	+ 30 dBm
Typical.	500-3150 MHz	+ 25 dBm
OIP2 (dBm), Typical.		+ 40 dBm
Group Delay		<1.0 ns
PSU Redundancy		Dual redundant and alarmed Diode OR.
Matrix Module		Combining: Field replaceable
		System Control
Remote Control	& Monitoring	Ethernet via RJ45 with HTTPS & SNMPv3, 10BaseT/100 Base Tx. ETL TCP/IP, SNMP & Web browser interface. Via parent chassis
		Physical & Environment
Dimensions		4 x Genus 1U Module Slots
Weight / Colour		<0.5 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		2,000 feet AMSL (Operational) 8,000 feet AMSL (Storage) Above Mean Sea Level
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