



HYLAS 1

Delivering high speed Ka-band services across Europe

HYLAS 1 has a unique and flexible payload. The bandwidth can be changed whilst in orbit to maximise satellite efficiency.



HYLAS 1 Applications

Broadband Internet access

Broadcast

Business Internet Continuity

Government and Security data communications

GSM and mobile data backhaul

IP and interactive TV

IP Trunking

Remote site telemetry

Resilient high speed corporate data networks

Satellite News Gathering

Customer Advantages

4 times more powerful than traditional Ku-band satellites

A selection of packages available, including: raw bandwidth, managed megabit and bespoke customer accounts

Full management of services through OSS

Low operating costs for bandwidth and VSAT hardware



ORBITAL LOCATION	33.5° W
LIFT OFF MASS	2300 Kg
LIFE	15 years
PAYLOAD POWER	> 2.0 kW
CAPACITY	Up to 3GHz

Ka-band Broadband Payload

Uplink Frequency Range		Downlink Frequency Range	
Forward	27.5 – 29.5 GHz	Forward	19.7 – 20.2 GHz
Return	29.5 – 30.0 GHz	Return	18.1 – 19.7 GHz
Active Forward Transponders (Tx)	8	Active Return Transponders (Tx)	2
Forward Channel Bandwidth	250 MHz per beam	Return Channel Bandwidth	120 MHz per beam
EIRP	62 dBW at beam centre	Polarisation	Circular

HYLAS 1 is also complemented by a Ku-band broadcast capability

Ku-band Broadcast Payload			
Uplink Frequency Range	17.3 – 18.1 GHz	Downlink Frequency Range	11.7 – 12.5 GHz
Active Transponders	Multiple	Return	33 MHz
ERIP	54dBW at beam centre	Polarisation	Linear

The Ka-band earth stations for HYLAS 1 are located at Goonhilly and Lands End in Cornwall, UK.

HYLAS 1 satellite can also support use within the 30.0 – 31.0 GHz (earth-to-space) and 20.2 – 21.2 GHz (space-to-earth) frequency bands.



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