

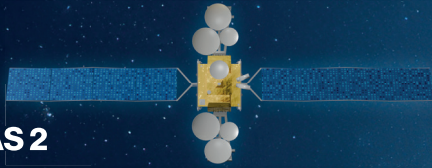
Secure your own highly adaptable and proven Ka band steerable beams.



UNIQUE STEERABLE BEAM CAPABILITY

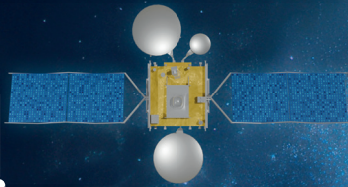
Avanti's steerable beams, available on HYLAS 2, HYLAS 3 and HYLAS 4, provide immediate Ka-band capacity worldwide. Avanti's beams operate in civilian and government frequencies, allowing customers to steer them directly in real-time with no human intervention.

HYLAS 2



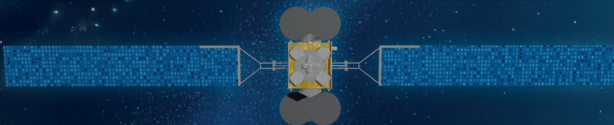
HYLAS 2's steerable beam can be steered anywhere on earth visible from its orbital location. It can offer manual, auto-tracking or customer-controlled steering and offers a range of operating modes to deliver maximum flexibility. It can operate direct to a Gateway, in loopback mode to deliver inter-beam mesh connectivity, or as a combination with one channel operating to a gateway and one channel operating in loopback.

HYLAS 3



Has a steerable cluster of beams delivering 8 CivKa beams and 4 MilKa beams. HYLAS 3 also provides an independently steerable gateway beam. This, coupled with our ability to place the satellite and its cluster anywhere in the world, gives customers the ultimate capability to secure sovereign control and sovereign traffic management.

HYLAS 4



Provides 4 steerable Ka-band beams that can be pointed independently anywhere on the Earth's surface, providing real-time tracking and full steering control, with services particularly optimised for fast-moving mobile platforms. HYLAS 4's steerable beams can also be used as a flexible gateway link to enable up to 16 fixed beams or anchor up to 3 other on-board Steerables.

MORE INFORMATION?

To know more about what Avanti can offer, please contact:

Defence Team
Defence@avanti.space



www.avanti.space

Be More.

The Advantages

Customer Controlled Steerable Solution (patent pending*)

Avanti's proprietary software and control systems delivers a patented, customer-controlled steerable solution - direct to satellite, zero-touch, no operator involvement.

*The system is currently unique to Avanti and is patent pending.

Spacecraft control

Avanti's competitive edge lies in our highly capable spacecraft operations team and well-developed global capability. With a combined experience of 250 years of mission-critical experience, including numerous successful in-orbit relocations, we have demonstrated the ability to execute complex manoeuvres reliably and repeatedly. This operational strength underpins our steerable beam services, ensuring rapid, precise, and secure customer outcomes.

Full steering rights

Avanti's technology and software tooling (API) gives customers the ability to move the beam(s) at any time within the agreed term. Operational information from the satellite is automatically fed into the API, giving customers real-time visibility of their service and its performance.

Maturity

Avanti's steerable beams have been used continuously for over 7 years, including delivering mission critical military services. The dynamic steerable capability has successfully delivered services to maritime, aero and land platforms at speeds in excess of Mach 1.0 (aero). New customers can be connected, trained and moving beams in as little as 2 weeks.

Auto tracking and link speed

Avanti's steerable beams can automatically track aircraft and vessels at speeds beyond Mach 1, repointing every two minutes. Proven real-world performance includes 320:40 Mbps to aircraft at 1000+ km/h.

Avoiding Interference

Avanti's satellites use in-house developed software to eliminate any possible issues with beam interference or communications exclusion zones. This is designed to ensure our customers have the greatest freedom of operation and the greatest assurance of maximum performance.

Tailored service

Our services are entirely adaptable and extensible to meet specific customer requirements. Unlike other operators Avanti can provide the greatest flexibility of service including relocating satellites to alternative orbital locations to meet emerging requirements; using satellites to maintain orbital filings to mitigate delays in satellite delivery; repositioning steerable capabilities to meet short or long-term capacity needs as well as providing novel and flexible commercial models ranging from whole satellite leases through to steerable beam ad hoc/occasional use.

Obfuscation

Avanti's beam steering services are fully obfuscated, meaning only the end user/customer knows where the beam is pointed. Steering request locations are secured and encrypted before being sent directly to the satellite. The data is not stored in Avanti's data centre nor seen by Avanti employees in the requests. This provides complete operational security for end users and customers.

Civil and Government frequencies

Our steerable beams are able to operate in civilian, government and broadcast frequencies.

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