

4.1-meter Ka-band

Broadband gateway Earth station antenna

Designed for the latest high-capacity Ka-band satellites, Viasat's 4.1-meter antenna system delivers high-speed broadband connectivity for residential, commercial, and government services.

Our 4.1-meter Ka-band antenna system is ideally suited for worldwide high-performance geostationary Ka-band gateway applications.

The Cassegrain-shaped antenna with precision reflector surfaces are designed to improve gain and side lobe performance at Ka-band and higher frequencies. The carbon fiber antenna panels, back structure, spars, and sub-reflector provide a rigid structure that maintain its shape in extreme thermal environments, including during de-icing operation. The antenna is easily assembled including a bolt-together reflector that achieves accurate surface and sub-reflector alignment without special equipment or skills.

The convenient rear-mounting frame design supports multiple redundant suites of high-power amplifiers (HPAs), low-noise amplifiers (LNAs), and converter configurations with minimal waveguide loss.

The rugged mount maintains Ka-band pointing accuracy in adverse wind conditions. Azimuth utilizes low-backlash dual drives with active torque bias. Elevation uses a novel fine and coarse drive configuration (patent pending) that greatly reduces jackscrew wear when tracking geostationary satellites. Routine service can be performed without taking the antenna out of service. Optical encoders in both axes provide precision position feedback.

Our 5th generation antenna control system features DC servo performance with adaptive step tracking, designed to enhance tracking performance. For quick access and service, the control system can be conveniently located at the pedestal or is available in an indoor rack mount configuration.



4.1-meter at-a-glance

- › Antenna designed to meet Federal Communication Commission (FCC), International Telecommunication Union (ITU), ANATEL, and Eutelsat regulations
- › High-efficiency shaped Cassegrain optics
- › Bolt-together carbon fiber reflector requires no field alignment
- › 2-port and 4-port circularly and linearly polarized feeds available
- › Precision structural steel mount
- › Easily accessible rear-mounting frame for electronics packages
- › Standard accessories include foundation template and anchor bolts, lightning protection kit, and rain blower
- › CE compliant
- › Damage-resistant feed window

OPTIONS

- › Electric de-icing
- › HPA/LNA/converter mounting
- › Environmentally-controlled rack equipment cabinet
- › Alternate frequency bands including Q- and V-bands

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