

# 13.5-meter Ka-band

Broadband gateway Earth station antenna

**Designed for the latest high capacity Ka-band satellites, the 13.5-meter antenna system delivers high-speed broadband connectivity for residential, commercial, and government services.**

Viasat's 13.5-meter Ka-band antenna is ideally suited for high-performance geostationary Ka-band gateway applications.

The shaped Cassegrain antenna with precision-machined sub-reflector is designed to improve gain and side lobe performance at Ka-band frequencies. Improved high-precision, stretch-formed panels are supported by stiff steel radial trusses attached to a large central hub. The reflector back structure and spars are designed to exacting Ka-band rigidity requirements to provide optimum performance under a wide range of environmental conditions. All aluminum reflector panels, coated with a solar diffusive white paint, minimize thermal effects at Ka-band.

The oversized hub is specifically designed to support multiple redundant suites of HPAs, BUCs and receive chain configurations. The extra-large doorway allows easy access from the large extended work platform for convenient maintenance of all the electronics. The redundant HVAC system maximizes the electronics Mean Time Before Failures (MTBF) and service availability.

The rugged steel mount delivers Ka-band pointing accuracy in adverse wind conditions. The pedestal design features a precision azimuth bearing with dual drivers for very low backlash.

Viasat's proven antenna control system features DC servo performance with monopulse autotracking, designed to enhance tracking performance.. For quick access and service the control system is conveniently located on the work platform.



## 13.5-meter at-a-glance

- › Antenna patterns compliant with FCC, ITU, ANATEL, and Eutelsat regulations
- › High-efficiency shaped Cassegrain optics
- › 2-port and 4-port circularly and linearly polarized feeds available
- › Precision structural steel mount
- › Easily accessible hub for electronics packages with hinged door access (accommodates up to 8 HPAs)
- › Standard accessories include large work platform and stairs, foundation template and anchor bolts, lightning protection kit, rain blower
- › CE compliant
- › Low maintenance with auto lubrication and damage resistant feed window

### OPTIONS

- › Hot air de-icing
- › HPA/LNA/converter mounting
- › Environmentally controlled hub
- › Alternate frequency band
- › Work platform ladder
- › Equipment hoist
- › Elevation counterweights
- › Defrost (feed and sub-reflector)
- › TT&C capabilities
- › Radome
- › Installation and maintenance services

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