

JUPITER™ SYSTEM

Deployed by Satellite Broadband Operators on Six Continents The Hughes JUPITER System Sets the Standard for Efficiency and Performance

The JUPITER™ System is the next generation very small aperture terminal (VSAT) platform from Hughes for broadband services over both high-throughput and conventional satellites. Featuring a flexible and robust gateway architecture with lights-out operation, enhanced IPoS air interface for bandwidth efficiency and performance, and high-throughput terminals, JUPITER enables operators to achieve the highest possible capacity and efficiency for any satellite broadband implementation over Ka-band, Ku-band or C-band.

300 Mbps
throughput

Wideband
DVB-S2X
channels

Return channel supports speeds **over 50 Mbps**



Acceleration of **16,000 simultaneous** TCP sessions

Layer 1 and Layer 2 efficiencies, including modulation and roll-off, enabling seamless satellite and terrestrial integration



Approximately **10 ms** jitter

Round-trip latency less than **600 ms**

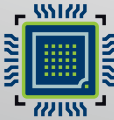
Distributed or centralized gateway architecture



Integrated linear Ka-band radio supports **8PSK** and **16APSK** higher order modulation schemes



Differentiated QoS for improved traffic management



The powerful JUPITER System on a Chip (SoC), the industry-first, custom-designed VLSI processor employing a multi-core architecture and enabling 300 Mbps of throughput on every terminal within the JUPITER family.

APPLICATIONS

Enterprise & Government Networks

Powering primary and back-up networks for retail, restaurant, retail petroleum, convenience store, financial, pipeline, monitoring and distance learning applications, among others

Community Wi-Fi Hotspots

Enabling more than 32,000 satellite-powered Community Wi-Fi Hotspots

Satellite Internet

Supporting more than 1.3 million HughesNet® subscribers across the Americas

Aeronautical In-flight Connectivity

In use on aircraft around the world, roaming-capable across JUPITER-equipped systems

Maritime Connectivity

Delivering connectivity anytime, anywhere aboard ships, off-shore drilling rigs and military vessels

Fixed Cellular Backhaul

Backhauling more than 10,000 cellular sites across Africa, Asia and Latin America

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