

# 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



**10 ms**  
— jitter —

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

**Distributed or centralized** gateway architecture



Integrated linear Ka-band ODU 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.



TDMA with ACM yields network efficiency and simplified planning

## 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 39,000 satellite-powered Community Wi-Fi Hotspots

### Satellite Internet

Supporting more than 1.5 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 12,000 cellular sites across Africa, Asia and Latin America

**HUGHES**®  
An EchoStar Company

© 2020 Hughes Network Systems, LLC. All Rights Reserved.  
The HUGHES logo is a registered trademark of Hughes Network Systems, LLC, an EchoStar company.