

# 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

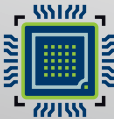
**Distributed or**  
**centralized**  
gateway  
architecture



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.

## 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 1.4 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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