

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

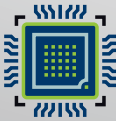
Distributed or
centralized
gateway
architecture



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

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