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
- **Round-trip latency less than 10 ms**
- **600 ms jitter**
- **Distributed or centralized gateway architecture**
- **Integrated linear Ka-band ODU supports 8PSK and 16APSK higher order modulation schemes**
- **Differentiated QoS for improved traffic management**
- **TDMA with ACM yields network efficiency and simplified planning**

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 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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