OpenSpace Platform: Carrier Ethernet over Satellite for Cellular Backhaul

Deliver Carrier-Grade Services Faster and more Cost-Effectively at Scale

Demand for wireless connectivity and bandwidth in remote areas continues to grow rapidly. Today's Mobile Network Operators (MNOs) are looking for innovative satellite solutions to decrease time-to-market, streamline operations, increase revenue and maximize bandwidth.

Satellite has traditionally been viewed as the transport solution of last resort due to its siloed and proprietary nature. In response the OpenSpace Platform was built with support for telecom standards from the ground-up, making satcom a seamless experience for wireless providers.

Benefits at a Glance

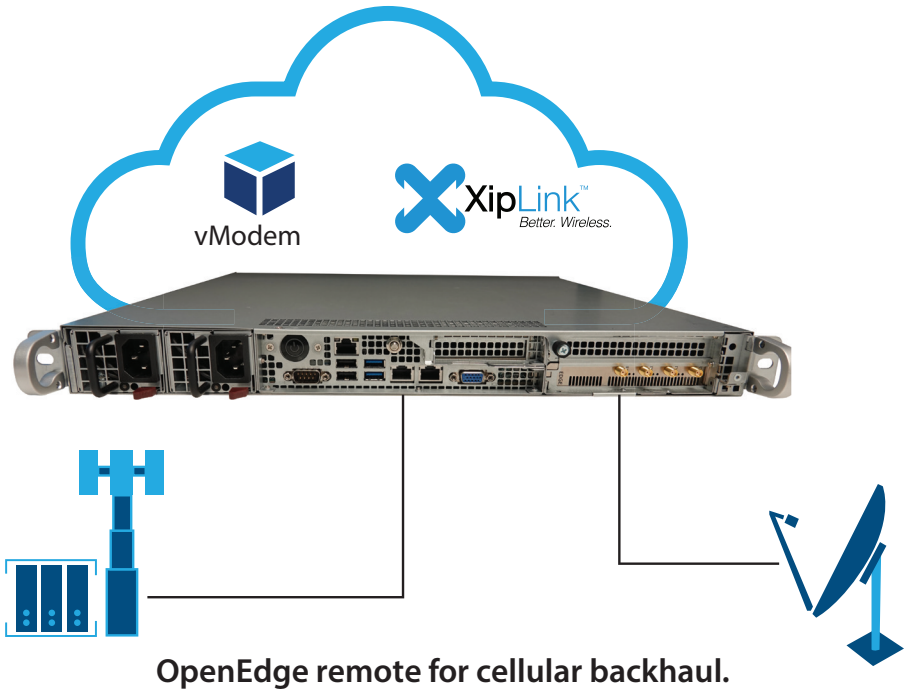
- Seamless integration with telecom networks
- Industry leading traffic acceleration and compression
- Easily scalable through software-defined and cloud native architecture
- Enable advanced edge computing for networks

OpenSpace Platform for Cell Backhaul

The OpenSpace Platform is the first digital, fully virtualized, and orchestrated ground system in the satellite industry. The OpenSpace Platform operates natively with the OpenEdge, a flexible software-defined terminal solution.

The OpenSpace Platform and OpenEdge remotes offer an IT based and telecom standards focused solution for cellular backhaul networks.Leveraging telecom-grade Carrier Ethernet over Satellite capabilities, the OpenSpace Platform offers class-leading cellular backhaul performance.

MNOs can leverage the OpenSpace Platform to deploy satcom services in minutes by spinning up virtual modems and third-party software applications at the gateway and the OpenEdge to enable fully orchestrated services. Operations can be scaled on demand to support customer growth.



OpenEdge remote for cellular backhaul.

OpenSpace Cellular Backhaul Specifications

Kratos has partnered with the class-leader in cellular backhaul optimization, XipLink, to offer operators an integrated and highly efficient backhaul solution.

Optimal Utilization of Link capacity – Eliminates round-trip delay impairments with TCP acceleration based on standard SCPS-TP.

- Tune traffic for the optimal user experience with Flexible Rate Control mechanism
- Save return link bandwidth with Smart traffic compression

Web and Video Optimizations – Improve Quality-of-Experience for browsing and video streaming with faster page start and loading times.

- Video plays earlier and delivers consistent quality
- Sustain 1080p and 4K UHD video streaming, as long as bandwidth is available

Advanced Quality of Service (QoS) – Prioritize important traffic with intelligent traffic shaping:

- Hierarchical QoS classes
- Ensure the correct traffic is prioritized by using configurable committed and maximum rates

Integrated Backhaul Edge - Bundling Xiplink's optimization solution together with the Kratos vModem on a single OpenEdge provides users with a compact and easy to deploy two-in-one backhaul solution.

- Up to 250 Mbps and 15,000 sessions of accelerated traffic on a single OpenEdge remote.

Gateway Connectivity Options – Connect an existing XipLink appliance to the OpenSpace Platform at the gateway.

- Alternatively simplify deployment and accelerate time-to-market with a pre-configured one rack unit server solution for high-capacity backhaul optimization.
- The server supports up to 25 remotes and accelerates up to 2 Gbps traffic and 150,000 sessions and can be ordered directly from Kratos.

For More Information

To learn more about the OpenSpace Platform please refer to these additional resources:

Website: www.KratosDefense.com/satcom

Videos: www.youtube.com/@DiscoverVirtualGround

Contact us: www. KratosDefense.com/contact-us