

Ovzon

Ovzon 3

An entirely new class of communications satellite, bringing about previously unimaginable levels of mobility, throughput and resiliency. Ovzon 3 is a purpose-built SATCOM-as-a-Service solution for assured connectivity when and where you need it most.



www.ovzon.com



Ovzon 3 is the first of Ovzon's revolutionary new class of satellites

Ovzon 3's patented solution, with high-powered steerable beams and a unique On-Board-Processor forever changes the way we think about Mobility, Performance and Resiliency

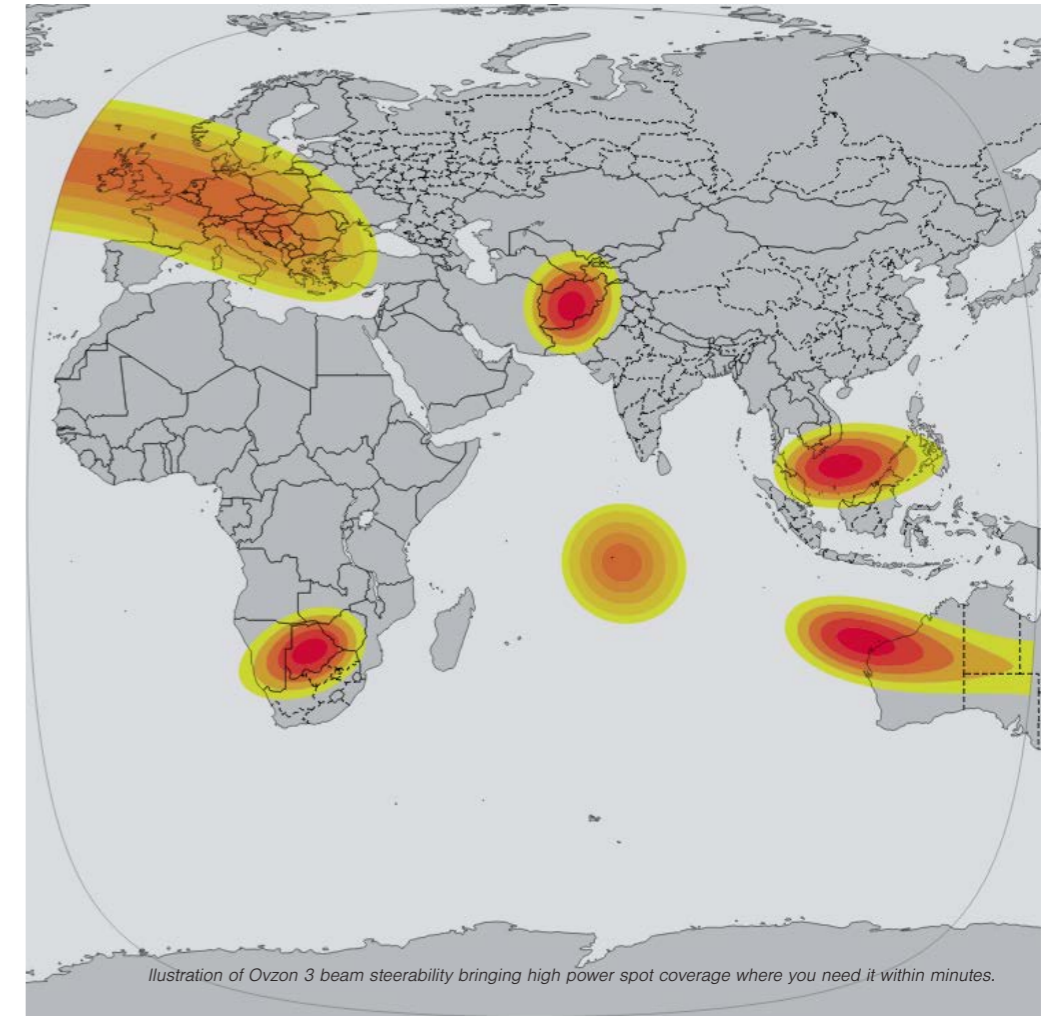
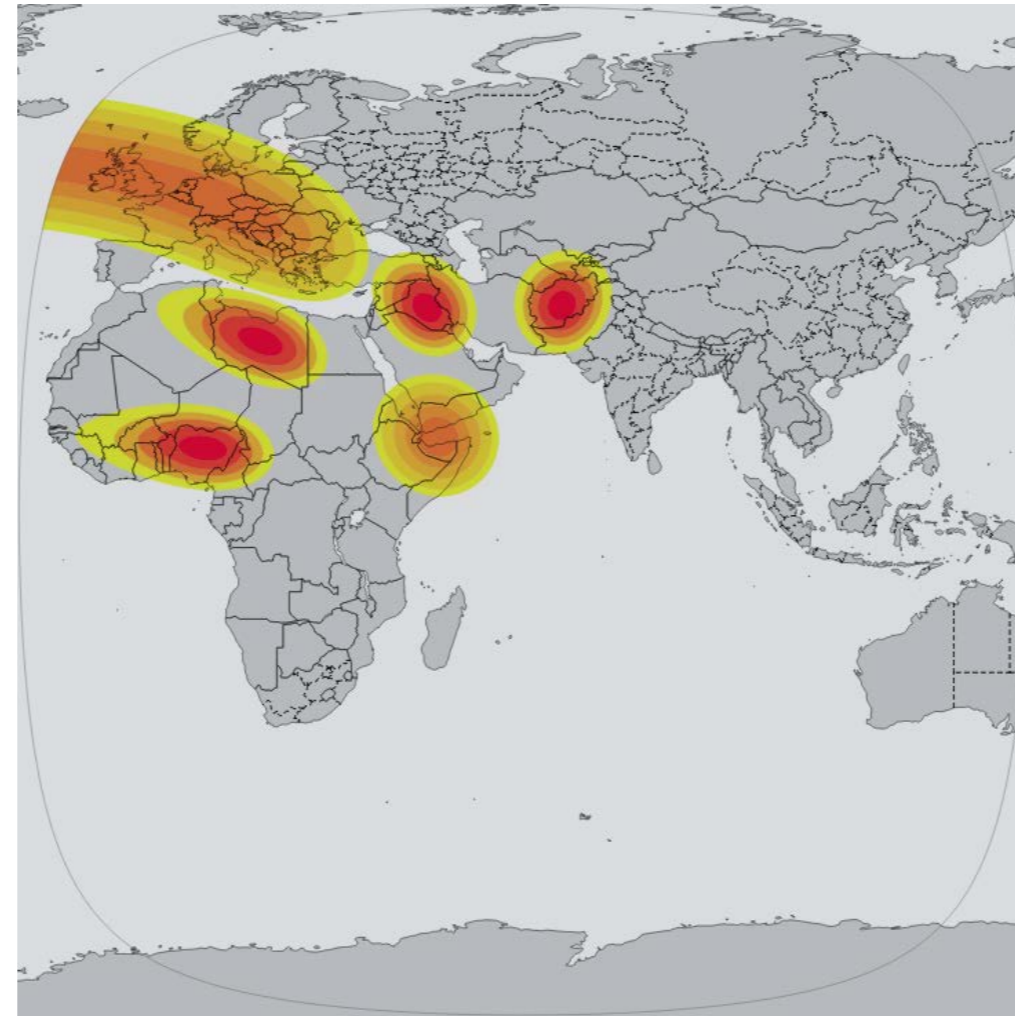


Illustration of Ovzon 3 beam steerability bringing high power spot coverage where you need it within minutes.

Ovzon 3

Two key technologies distinguish Ovzon 3 as a disruptive capability in the world of satellite communications: first, the most powerful steerable spotbeams in space, and second, Ovzon 3's On-Board-Processor. Together they represent an entirely new class of communications satellite that forever changes the way we think about mobility, performance and resiliency.

Steerable Spot Beams

Five independent, powerful steerable spot beams dynamically deliver capacity to the right place at the right time. Ovzon 3's steerable spot beams provide the best combination of power density (EIRP) and antenna receive performance (G/T) in orbit.

On-Board-Processor

Ovzon 3's On-Board-Processor represents truly disruptive technology that enables previously unavailable resiliency for assured connectivity when you need it most. The OBP is a powerful and sophisticated in-orbit processing platform that delivers key features and directly connects deployed terminals across multiple beams when teleports are degraded, destroyed or otherwise unavailable.

Ovzon 3 uniqueness

Ovzon 3 will boost the efficiency and performance of the current lineup of terminals, and has sparked another round of innovation in the development of new terminals that are closer in form factor to a smartphone than traditional satellite terminals. Pound for pound, ounce for ounce, Ovzon satellite terminals will always outperform the competition.

Security

Very Low Signal-to-Noise Ratio (VLSNR) functionality:

Operating below the noise floor provides a crucial advantage in military operations by not allowing for the identification of these weak, concealed signals. This enhances situational awareness, allowing for covert communication, early threat detection, and improved electronic warfare capabilities.

TRANSEC:

The Ovzon 3 OBP delivers what is a Transec comparable capability enhancing operational confidentiality, integrity, and reliability, contributing to mission success and overall military effectiveness.

Encryption:

Having NSA-approved Encrypted TT&C (Telemetry, Tracking, and Command) ensures secure control and command of the Ovzon 3 satellite, meaning that the mission of the satellite will not be compromised in any way by rogue states.

Resiliency

All weather capability:

The system is designed to provide high link availability in varying conditions and facilitate mobile satellite communications in any climate.

Autonomous operation:

Ability to continue Operation through a direct link between Ovzon 3 and our terminals even if the ground control station is compromised.

Future proof and customer-specific network-adaptable:

Ovzon's OBP is reprogrammable in orbit to add new functionality and meet specific demands as they arise.

Flexibility

Steerable high-power beams:

The multiple steerable beams can dynamically move capacity where and when needed.

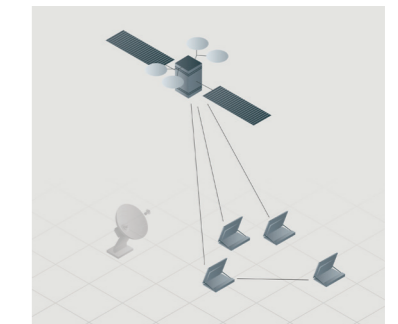
Packet Routing:

Full cross-connectivity routing between beams at individual packet level on the Ovzon 3 satellite ensures uninterrupted connectivity, optimized data transfer, and strategic operational advantages for military users.

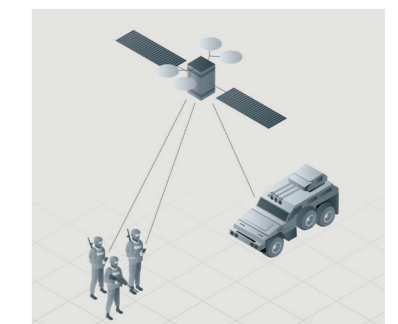
Single-Hop/Mesh:

Allows direct communications between ultra-small terminals enables real-time video, voice, and data applications with minimal latency and high resiliency in contested environments.

Illustrations



Autonomous operation



Single-Hop/Mesh

Ovzon satellite roadmap

Ovzon 3 is the first of multiple proprietary Ovzon satellites that will expand our global reach to meet our customers' increasing SATCOM-as-a-Service needs.

Ovzon SATCOM-as-a-Service service plans

Ovzon offers different categories of satellite services with global reach using Ovzon's satellite network.

- **Ovzon Orion:** exclusive to the Ovzon T7 and enabled by the Ovzon 3 On-board Processor. The service allows for the most advanced features specifically for the mission-critical applications of customers operating in the near-peer environment.
- **Ovzon Pegasus:** enabled by Ovzon 3 bringing a steerable beam service offering, specifically developed for the critical tasks of the most demanding customers.

- **Ovzon Hero:** our global advanced service plan enabled by Ovzon's satellite network. A flexible service that allows customers to deploy capability in a way that offers complete control and guaranteed throughput for their users.

Ovzon SATCOM-as-a-Service includes:

- Ovzon airtime
- Ovzon terminal OTP and OTM
- Internet gateway access
- Terrestrial Backbone connectivity
- 24/7 customer support

Ovzon 3 - Highlights



On-Board-Processor



Steerable beams



Global Reach



Higher Speed



24/7 Support

Ovzon's broadband satellite terminals On-The-Pause or On-The-Move with Ovzon 3



Specifications	Ovzon T7	Ovzon T6	Ovzon OTM Mini
Transmit Data Rate	10 Mbps	100 Mbps	60 Mbps
Receive Data Rate	60 Mbps	120 Mbps	100 Mbps

Ovzon T7 The new Ovzon T7 is an ultrasmall, lightweight, power efficient On-The-Pause (OTP) broadband satellite terminal. Engineered to perform in the most challenging situations and austere environments, the Ovzon T7 can reliably transmit and receive true broadband data rates in a form factor smaller than more common L-Band terminals.

Ovzon T6 is an On-The-Pause terminal. The Ovzon T6 is a lightweight, rugged, laptopsized broadband terminal that can be deployed, aligned, and connected within less than one minute. The T6 includes Ovzon's patented antenna polarization technology that requires adjustment in only two axes.

Ovzon OTM Solutions offer ruggedized and optimized broadband satellite terminals that cover a range of different applications such as Aero, Rotor, Maritime, UAV, and Multi-purpose UV.

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