



Iridium **NEXT**

The bold future of
satellite communications





Ready for what comes next

Iridium NEXT is set to drive innovation, create opportunities and change the way people and organizations communicate – everywhere on the planet.

Iridium is forging ahead with its uncompromising vision for the future of global communications: Iridium NEXT.

Iridium's groundbreaking next generation satellite constellation will deliver exciting new innovations and opportunities, while ensuring continued high performance and reliability for all existing Iridium-enabled solutions far into the future.

Driving an evolution in global communications

With the first launch scheduled for 2015, Iridium NEXT will dramatically improve Iridium's ability to meet the rapidly expanding demand for global mobile communications products and services on land, at sea and in the skies.

Iridium M2M – Higher speeds and greater bandwidth will unlock new possibilities in asset tracking, fleet management and other intelligent data applications.

Land Mobile – Iridium handheld device users will benefit from even more powerful and reliable enhanced personal communications.

Broadband – Iridium is uniquely positioned to offer a diverse portfolio of faster and more affordable global broadband services and devices.

A powerful engine for growth and innovation

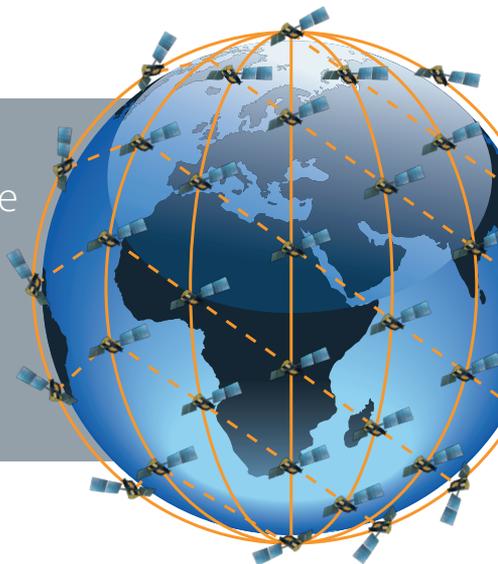
By giving partners access to core technologies and toolkits that unlock the power of Iridium NEXT, Iridium empowers its ecosystem to build more cutting-edge solutions than any single company could hope to achieve on its own.

Iridium NEXT is set to power growth in rapidly expanding markets, including:

- Maritime
- Aviation
- Transportation
- Government and military
- Travel
- Heavy equipment
- Oil and gas
- Emergency response
- Commercial and government hosted payloads
- Utilities
- Agriculture

The world's largest commercial satellite constellation

- 66 Low-Earth Orbit Satellites
- 6 in-orbit spares
- 9 ground spares as backup



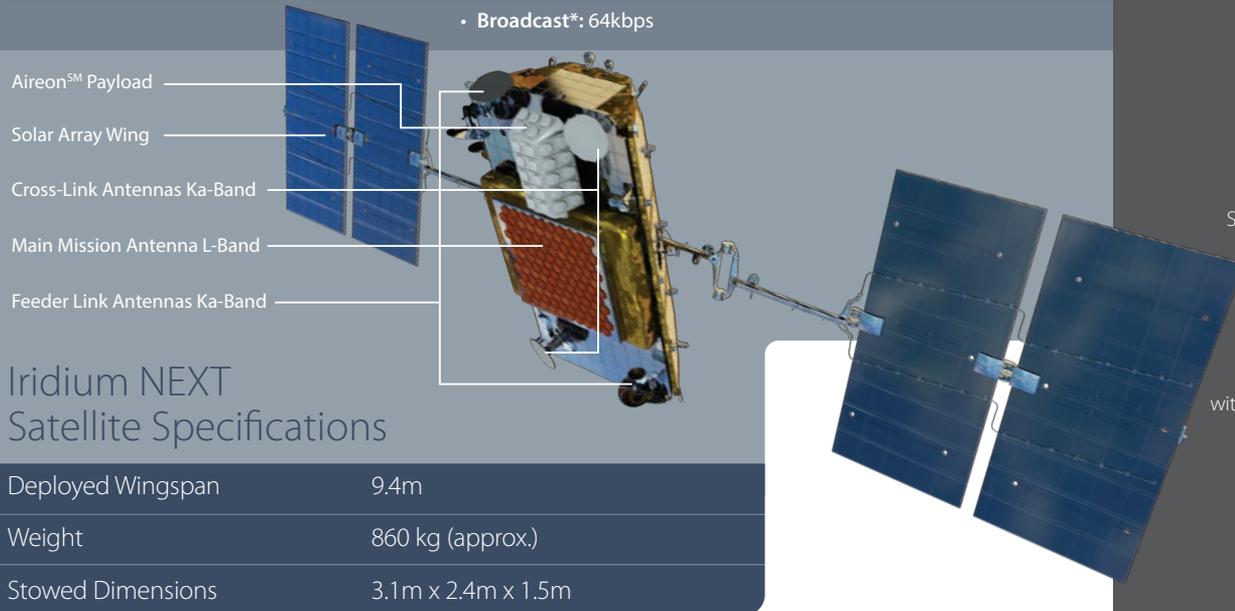
Iridium NEXT incorporates the best capabilities supported by the current Iridium network – plus an array of truly remarkable enhancements and innovations.

Current Constellation

- **Voice:** 2.4kbps
- **Circuit switched data:** 2.4kbps
- **Short burst data:** Low
- **Iridium OpenPort®:** 132kbps
- **Iridium OpenPort AeroSM:** 132kbps

Iridium NEXT

- **Voice:** 2.4kbps (w MOS3.5)
- **Circuit switched data:** 9.46-64kbps
- **Iridium OpenPort®:** 128-512kbps
- **Iridium OpenPort AeroSM:** 128-512kbps
- **L-Band high speed*:** Up to 512kbps up/1.5mbs down
- **Broadcast*:** 64kbps



Iridium NEXT Satellite Specifications

Deployed Wingspan	9.4m
Weight	860 kg (approx.)
Stowed Dimensions	3.1m x 2.4m x 1.5m

A uniquely sophisticated architecture

Iridium NEXT will maintain the existing mesh architecture of the Iridium constellation of 66 cross-linked Low-Earth Orbit (LEO) satellites, delivering high-quality voice and data coverage over the planet's entire surface, including across oceans, airways and Polar Regions.

In space, each Iridium NEXT satellite will be linked to four others – two in the same orbital plane and one in each adjacent plane – creating a dynamic mesh network that routes traffic among satellites to ensure a continuous connection, everywhere.

This unique configuration will allow services using the Iridium network to continue to remain unaffected by natural disasters, including hurricanes, tsunamis and earthquakes that can cripple terrestrial infrastructure.

Transforming the business of hosted payloads

A founding member of the Hosted Payload Alliance, Iridium is a leader and visionary with the Iridium NEXT and Iridium PRIMESM payload programs.

Iridium secured the industry's largest deal to date for the primary payload space on Iridium NEXT with AireonSM, a joint venture between Iridium and NAV CANADA set to revolutionize global air traffic surveillance.

Iridium secured a secondary payload agreement with Harris Corporation, which will use the space to address various customer applications with the Harris AppSTARTM reconfigurable payload platform.

Iridium PRIMESM is the world's first turnkey payloads solution on stand-alone satellites, designed to reduce the complexity and costs of access to space-based services.

On schedule for launch

- 2017**
Iridium NEXT planned to be fully deployed
- 2015–17**
Additional Iridium NEXT launches scheduled
- 2015**
Iridium NEXT to begin launching
- 2014**
Launch segment SpaceX mission critical design review
- 2013**
System critical review with Thales Alenia Space
- 2012**
Software critical design review with Lockheed Martin
- 2012**
AireonSM hosted payload program announced
- 2011–14**
Development and construction of Iridium NEXT satellites
- 2011**
Iridium signs contract with ISC Kosmotras for Iridium NEXT launch provider
- 2010**
Iridium successfully closes financing
- 2010**
Iridium and SpaceX sign major commercial launch contract
- 2007**
Iridium announces plans to develop Iridium NEXT constellation

Only one communications company connects the entire globe

Iridium commands the world's furthest reaching network, making it the only truly global communications company with solutions that span from pole-to-pole. Iridium voice and data products provide superior communications solutions that allow global companies, government agencies and individuals to stay connected everywhere. With a unique, global ecosystem of partners, Iridium continues to create new, high-value capabilities that are leading the world into a new era of communication.

www.iridium.com



 **iridium**[®]
Everywhere



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