KEPLER

UNBOUNDED CONNECTIVITY 2021 VIRTUAL RVTEC UAF R/V Sikuliaq and Kepler

October 27th, 2021

Kepler at a Glance





12 MONTHS NAPKIN TO ORBIT 1st KU-LEO SAT



PROPRIETARY RADIO / ANTENNA



GLOBAL KU-BAND SPECTRUM LICENSE



PATENT FILED



3 TELEPORTS OPERATING

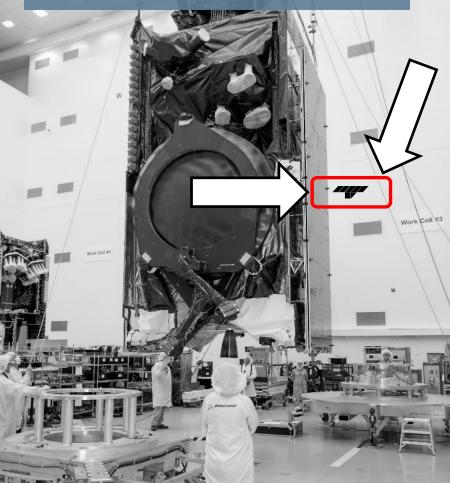


Commercial Service – Global Data Service



Kepler KIPP Spacecraft

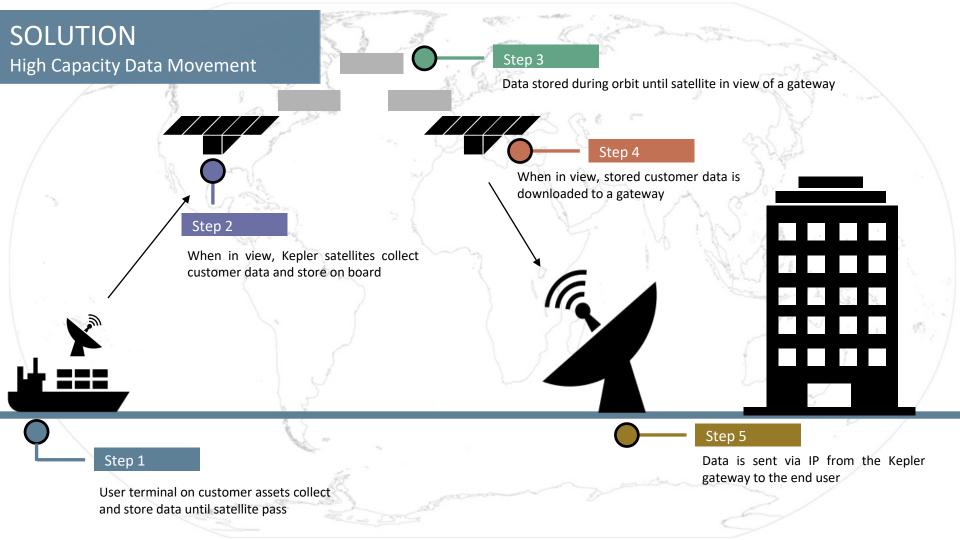
Intelsat 35e Spacecraft

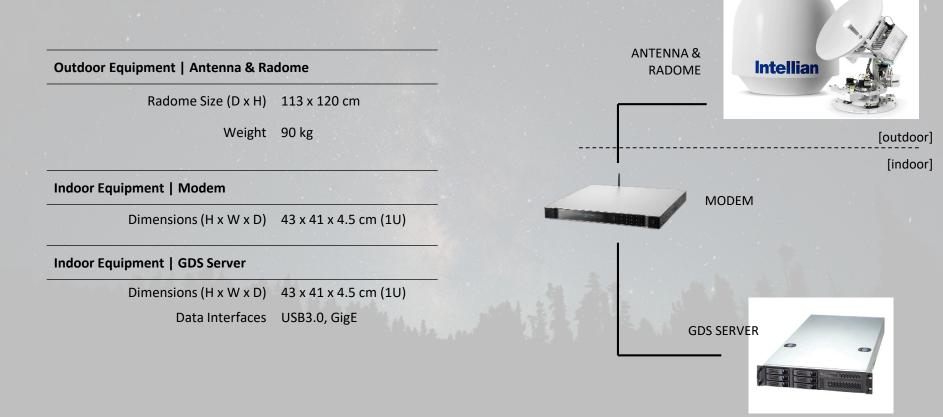


Nanosatellite-Enabled Communications

- World's First Ku-band LEO Satellite
- 200+ Mbps Bidirectional data speeds demonstrated on a 60CM VSAT and Kymeta's U8 ESA
- Compatibility with existing VSATs from C-COM, Cobham, Intellian & Kymeta
- SDR that supports wideband (Ku) and narrowband/IoT (S-band) from a single platform







Global Data Service Applications



SEISMIC VESSELS

Cost-effective means to deliver seismic data to customer servers and improve survey efficiency.

POLAR WIDEBAND

World's only pole-to-pole wideband data service for civilian and government applications

SCIENCE

Offering a low-cost alternative to move bulk scientific data from remote stations

HYDROGRAPHY

Improve the operational effectiveness of hydrographic and oceanographic surveys

Use Case: German *Polarstern* Icebreaker



POLAR OPERATIONS

90% of service life is in polar regions outside of traditional GEO satellite coverage **Solution:** LEO nanosatellites provide polar coverage



LARGE DATA NEEDS

Required wideband connectivity solution for operational and public-engagement data needs

Solution: Provide up to 500GB/mo capacity



BACKWARDS COMPATIBILITY

Recent deployment of SeaTel 9711 Ku/C dual-band system without deck space for new antennas

Solution: System designed as backwards compatible with Ku-band VSAT



R/V Sikuliaq Deployment



CONTACT US TO DISCOVER HOW TO TAKE ADVANTAGE OF LEO SATELLITES FOR YOUR OPERATIONS

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