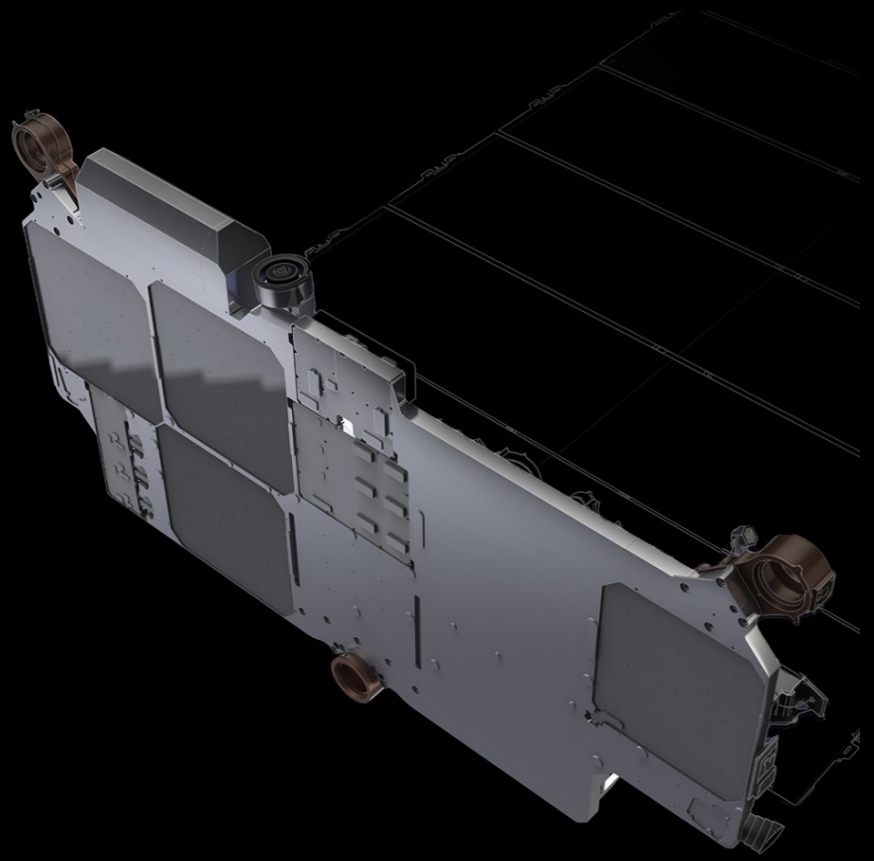
STARLINK

Commonwealth North: Telecommunications in Alaska's Arctic

November 4, 2020 | David Goldman, Director, Satellite Policy

Starlink Global Connectivity

- SpaceX Starlink committed to global coverage, including high-latitude polar regions
- High-speed, low latency broadband
  - Initial capability of **100-150 Mbps downlink to user**; increased capacity as system scales
  - **<30ms round trip latency** to internet for most users
- Rapid production and deployment: 120 satellites launched per month



Ground Segment

Starlink Consumer Kit
- Flat phased array design
- Supports self-installation by user
- Basic or variant model will operate in Artic environment

Authorizations
- FCC-licensed to operate 1,000,000 terminals in U.S.

Starlink Deployment Status

- Public beta service underway - direct-to-consumers across multiple U.S. states now
- Several communities being served
- SpaceX is interested in feedback to support similar connectivity solutions in Alaskan communities

Hoh Tribe
@TribeHoh

What a difference high-speed internet can make! Our children can participate in remote learning, residents can access #healthcare. We felt like we'd been paddling up-river with a spoon on this. @SpaceX Starlink made it happen overnight. Thanks @WAStateCommerce for introduction.

1:59 PM · Oct 7, 2020

WA Emergency Management
@waEMD

Happy to have the support of @SpaceX's Starlink internet as emergency responders look to help residents rebuild the town of Malden, WA that was overcome by wildfires earlier this month. #wawildfire

Ector County ISD
@EctorCountyISD

#TheFutureIsNowEC! We are joining the @SpaceX Starlink satellite constellation to provide high-speed, low-latency Internet to students. bit.ly/3dLraWX @chiefsforchange #PermianStrategicPartnership

5:09 PM · Oct 20, 2020 · Twitter Web App

KEEPING SPACE CLEAN

At end of life, the satellites will utilize their on-board propulsion system to deorbit over the course of a few months. In the unlikely event the propulsion system becomes inoperable, the satellites will burn up in Earth's atmosphere within 1-5 years, significantly less than the hundreds or thousands of years required at higher altitudes.