Transforming how the world connects

Direct to existing unmodified handsets

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Transforming connectivity with direct-to-cell technology (5G & LTE)

Everyday smartphones from all major brands have communicated with BW3
AST SpaceMobile is building the first & only space-based cellular broadband network

Raised over $1 billion to date to fund network build and technology with 3,100+ patent and patent-pending claims

Confirmed 5G cellular broadband capabilities and achieved 14 mbps download speeds to everyday smartphones directly from space

Signed agreements and understandings with 40+ mobile network operators with 2+ billion existing subscribers

Announced strategic investment from AT&T, Google and Vodafone to support the commercial roll-out of AST SpaceMobile’s network
Key highlights

- On target for July or August delivery of 5 Block 1 satellites to Cape Canaveral
- Signed milestone, 6-year definitive commercial agreement with AT&T for SpaceMobile Service
- First 5 satellites allow U.S. nationwide non-continuous service with 5,600+ cells in premium low-band spectrum
- Activities and discussions with government regulatory bodies, including FCC, are advancing as expected
- Continue to advance discussions with additional strategic partners, following the blueprint of commercial payments alongside commercial agreements
Update on industrialization of our patented technology

We continue to invest in our facilities in Texas and around the world, as we ramp up initial manufacturing and assembly lines for the BlueBird-1 and -2 satellites.

Headquarters

Manufacturing:
Midland, TX

Satellite Operations:
Lanham, MD
Mr. Avellan is AST’s Chairman, founder and Chief Executive Officer since its inception in 2017. Prior to founding AST, Mr. Avellan served as the founder and Chief Executive Officer of Emerging Markets Communications (EMC), a satellite-based communications services provider to maritime and other mobility markets, from 2000 until its sale for $550 million in July 2016. Mr. Avellan has over 25 years of success in the space industry and is an inventor on 24 U.S. patents. He was the recipient of the Satellite Transaction of the Year award by Euroconsult in 2015 and was named Satellite Teleport Executive of the Year in 2017. A proud United States citizen, Mr. Avellan resides in Florida with his family.
The world’s first and only space-based broadband network for standard cellular devices

- Partners with nationally licensed MNOs to extend their existing terrestrial infrastructure using the MNO’s already allocated spectrum
- Fill coverage gaps
- MNO uses their already licensed spectrum
- End users purchase the service from the MNO partner
- Revenue share model with MNO

Market based pricing even in low ARPU markets
Superior space-based low-latency broadband architecture

SpaceMobile will offer connectivity from low Earth orbit, akin to cell towers in space.

- Satellites at 500-700km altitude offer low-latency and attractive look angles.
- Large satellites create over 1 million fixed terrestrial cells globally with broadband capacity.

Low- and mid-band frequencies shared with wireless partners on non-interference basis.

Direct link to unmodified mobile phones and other cellular devices.

High-throughput Q/V-band feeder links for backhaul.

Gateways / Partner Network

Terrestrial Telecom Network
History made: connecting everyday smartphones directly from space using BlueWalker 3

**April 2023**

2G Voice Calls

**June 2023**

4G LTE Voice Calls

10 Mbps Data Rate

**September 2023**

5G Voice Calls

14 Mbps Data Rate

The first voice call was made from the Midland, Texas area to Rakuten in Japan over AT&T spectrum using a Samsung Galaxy S22 smartphone.

Using AT&T cellular spectrum, we connected everyday smartphones to our BlueWalker 3 test satellite and recorded 4G LTE download speeds of 10+ Mbps.

Company engineers demonstrated space-based 5G connectivity by placing a call from Maui, Hawaii, USA, to a Vodafone engineer in Madrid, Spain, using AT&T spectrum.

Click here for a video memorializing the 5G connection and other testing milestones using BlueWalker 3.
• USA and FCC Regulatory – overcoming challenges
  • FCC
  • FCC Space Bureau
  • FCC Supplementary Coverage from Space regulatory framework
  • Radio Regulations 4.4
  • FCC Spectrum Lease Agreement
  • AT&T Commercial lease agreement
  • AT&T Commercial Agreement
  • USA Gateways
  • NTIA