

# Starlink Deep Dive

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May 2024

Region 9 Rally, Bandera, TX

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# Agenda

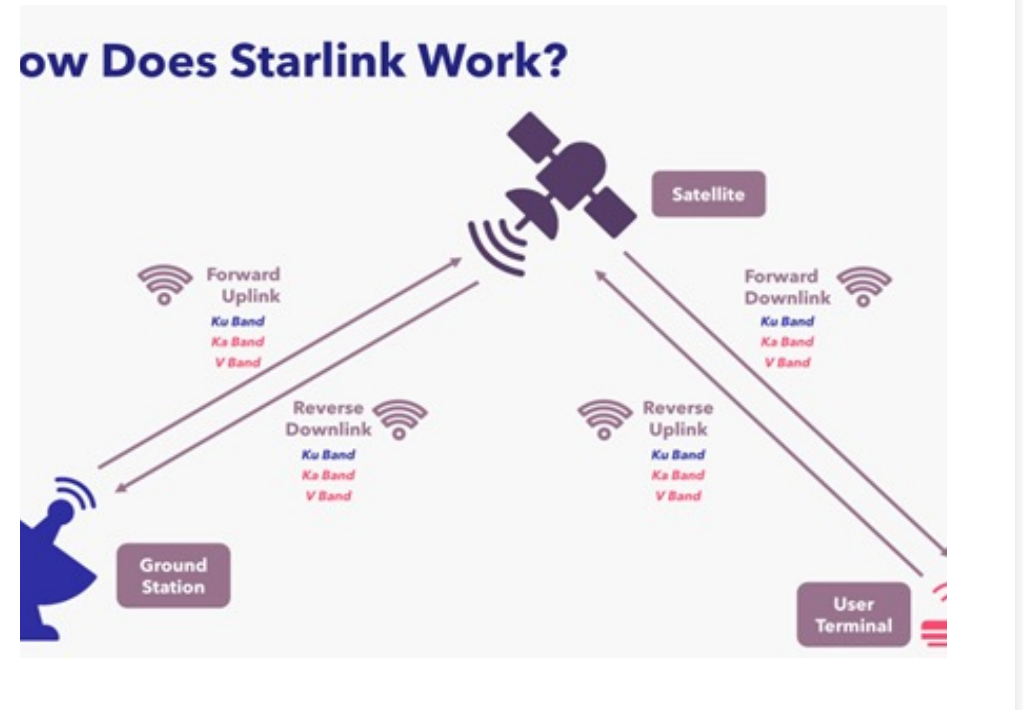
- Starlink overview
- Who's it for, and what problem does it solve?
- Information Resources
- Service plans
- Integrating into your Airstream
- Q&A



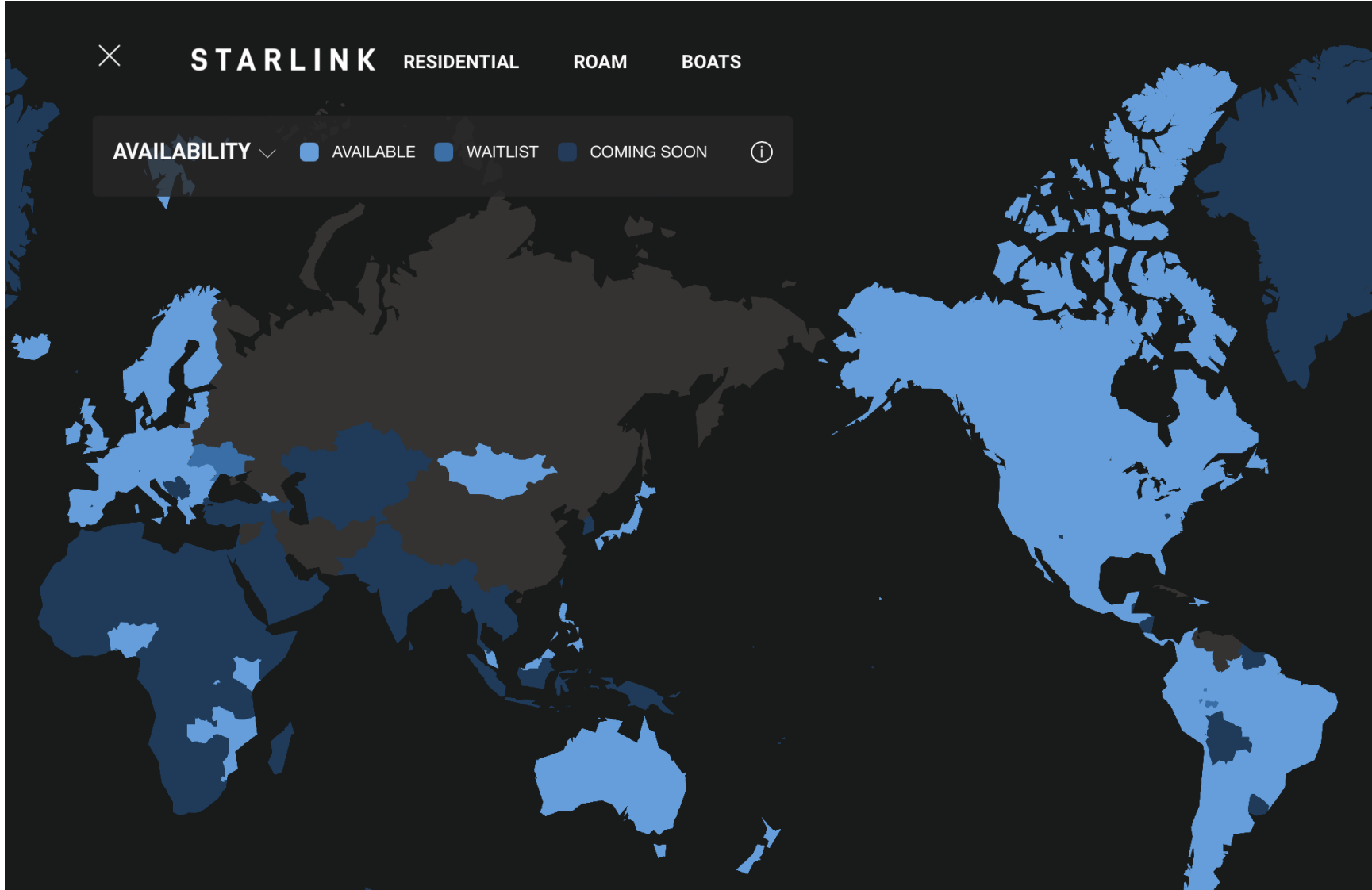


# Starlink Overview

- Initial service offering: 2019 (60 satellites)
- ~5,900 satellites (May 2024)
- ~12,000 planned, potentially more
- ~2.6M subscribers (May 2024)



# Starlink Availability (May 2024)



# Who is it for?

## Yes

- Working and often not in areas lacking reliable cellular.
- Need relative certainty of communication (“chasing the signal”).
- Desire redundancy (cellular + Starlink)

## No

- Typically camp in heavily wooded areas.
- Are ok with cellular (native and hotspots) and/or public WiFi

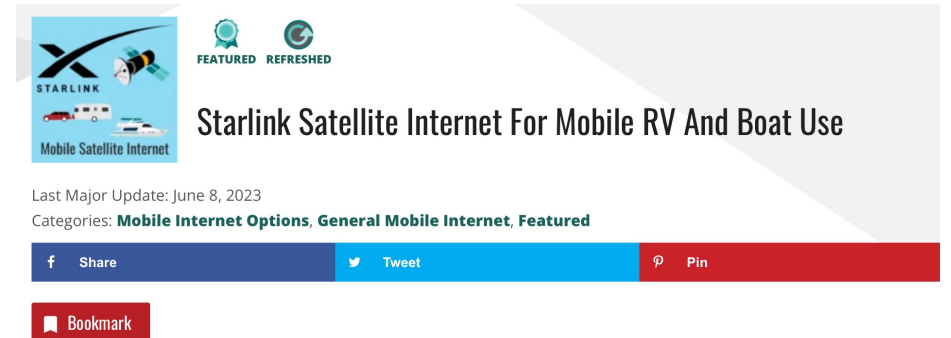
## Maybe

- Desire to reduce individual cellular plans (tablets, laptops).
- True “off-the-grid” boondocking or non-Airstream camping



# Informational Resources

- RV Mobile Internet
  - [rvmobileinternet.com/guides/starlink-rv-boat/](http://rvmobileinternet.com/guides/starlink-rv-boat/)
- Facebook Starlink for RV
  - [facebook.com/groups/starlinkrv](https://facebook.com/groups/starlinkrv)
- YouTube
- Poles & Holders
  - [polesandholders.com/collections/mounts](http://polesandholders.com/collections/mounts)
- [Starlink with Peplink](#)



STARLINK  
Mobile Satellite Internet

FEATURED REFRESHED

## Starlink Satellite Internet For Mobile RV And Boat Use

Last Major Update: June 8, 2023  
Categories: **Mobile Internet Options, General Mobile Internet, Featured**

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### Starlink for RV & Boat Internet

Satellite internet is rapidly evolving, and the most prominent new mobile internet option for RV and Boat connectivity is SpaceX's Starlink. This



Group by DIY RV Living

### Starlink for RVers and other mobile users

+ Invite

Discussion Guides Featured People Media Files



# Starlink Service Plans (May 2024)

## ORDER STARLINK

High-speed, low-latency broadband internet in remote and rural locations across the globe.

- Residential (\$599 + \$120/month)
- Business (\$2,500 + \$250/month)
- Roam/Mobile (\$599 + \$150/month)
- Boats (\$2,500 + \$250/month)
- Aviation (???)

[ORDER NOW](#)

# Starlink Hardware

- Rev 1 (2020)
- Rev 2 (2021)
- Rev 3 (2022)
- High Performance (2022)
- Rev 4 (2023)

## Starlink User Terminal models and hardware revisions

January 2024



### REV1 - Original Starlink "Dishy"

rev1\_pre\_production  
rev1\_production  
rev\_rev1\_proto3

Years in production: 2020 - 2021



### High Performance

rev\_hp1\_proto0  
rev\_hp1\_proto1

Years in production: 2022 -



### REV2 - Mass production "Dishy"

rev2\_proto1  
rev2\_proto2  
rev2\_proto3  
rev2\_proto4

Years in production: 2021 - 2022



### Flat High Performance

rev\_hp1\_proto0  
rev\_hp1\_proto1

Years in production: 2022 -



### REV3 - Standard Actuated

rev3\_proto0  
rev3\_proto1  
rev3\_proto2

Years in production: 2022 -



### REV4 - Standard

rev4\_proto3  
rev4\_proto4  
rev4\_prod1

Years in production: Q4 2023 -





## Starlink Dish Mount

- Tall mast is usually NOT needed.
- Usually only need to “see over” Airstream.
- But bring the standard base for options
  - Clearings in heavy tree cover areas.
  - Truck bed or roof
- Can make a pole with adapter

# Integrating into your Airstream

*Phase #1 (27' Globetrotter)*



# Integrating into your Airstream *Phase #1* (27' Globetrotter)

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# Integrating into your Airstream

## *Phase #2 (30' Classic)*

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# Integrating into your Airstream

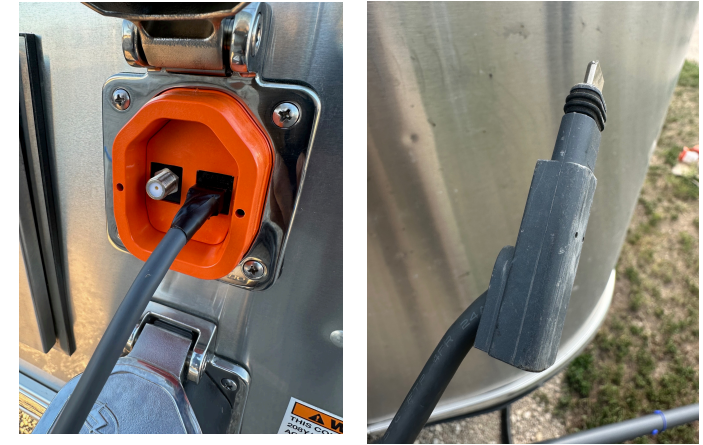
## *Phase #2 (30' Classic)*

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# Cutting the Cable...

- Necessary if using “SmartPlug” penetration
- Truly, it isn’t hard
  - Simple RJ45 crimp
  - Buy your IT friend a beer - will take ½ hour.
  - Or, have an Airstream dealer do it (and maybe route the cable)
  - But keep a spare cable (starlink.com)!



Klein Tools VDV226-110 Ratcheting Modular Data Cable Crimper / Wire Stripper / Wire Cutter for RJ11/RJ12 Standard, RJ45 Pass-Thru Connectors



# Integrating into your Airstream

*(Rugged RJ45 Connector Configuration)*

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# Placing the Router Factors

- Access to Starlink cable (router end).
- Access to inverter outlet
- Proximity to Airstream Connect
- WiFi radiation (bedstand)
- Ideally, not in a closed cabinet (but not critical)
- Aesthetics (!!)



# Routing the Cable

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- Airstream-dependent
- Antenna mast-dependent
- Aesthetics-dependent
- Other factors
  - Desire to open the front window (or not)
  - Permanent or temporary
  - Typical weather conditions
  - Use with ACI/WBCCI flags
- DIY or Dealer: time/experience/\$\$





# Starlink and Pepwave (Airstream Connect)



# Other Considerations



- Boondocking (power usage)
- Desire to use in multiple places
  - Home, Airstream, vacation home, non-Airstream camping, etc
- Infrequent use
- Theft (campground)

Q&A

# Thank You!

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