

# Starlink Deep Dive

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June 28th, 2023

Rally2023

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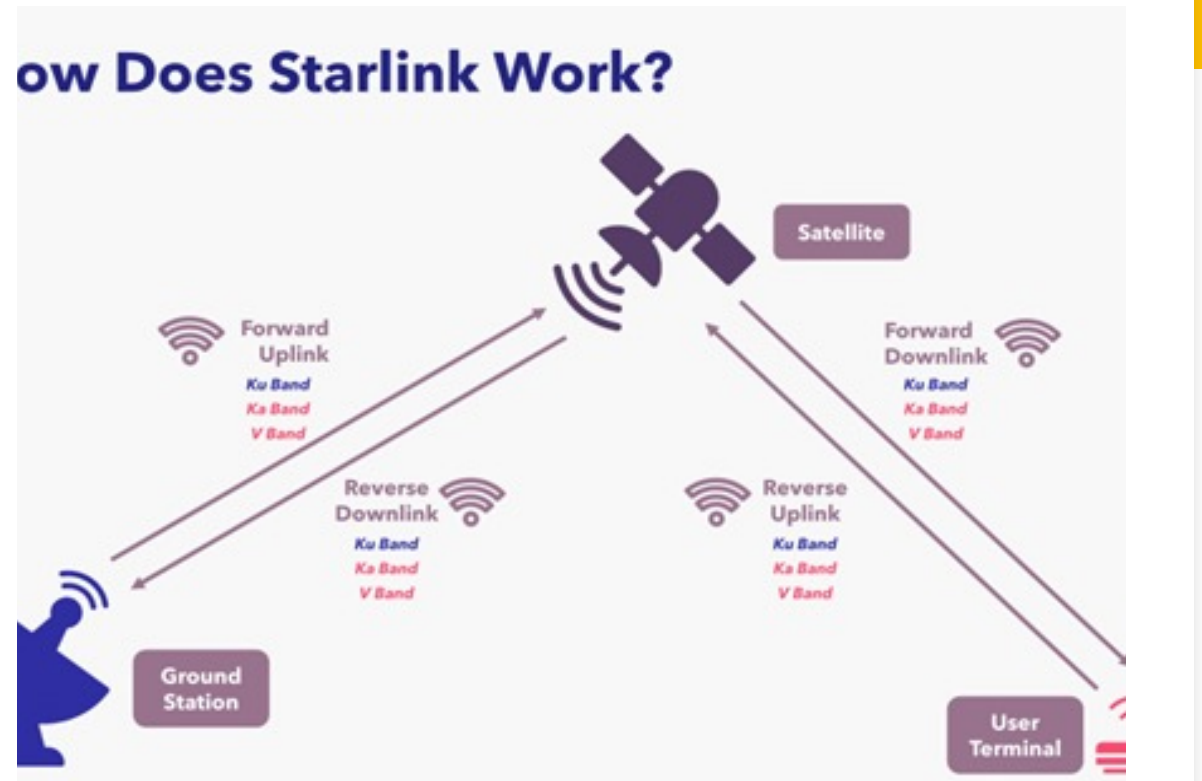
# Agenda

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

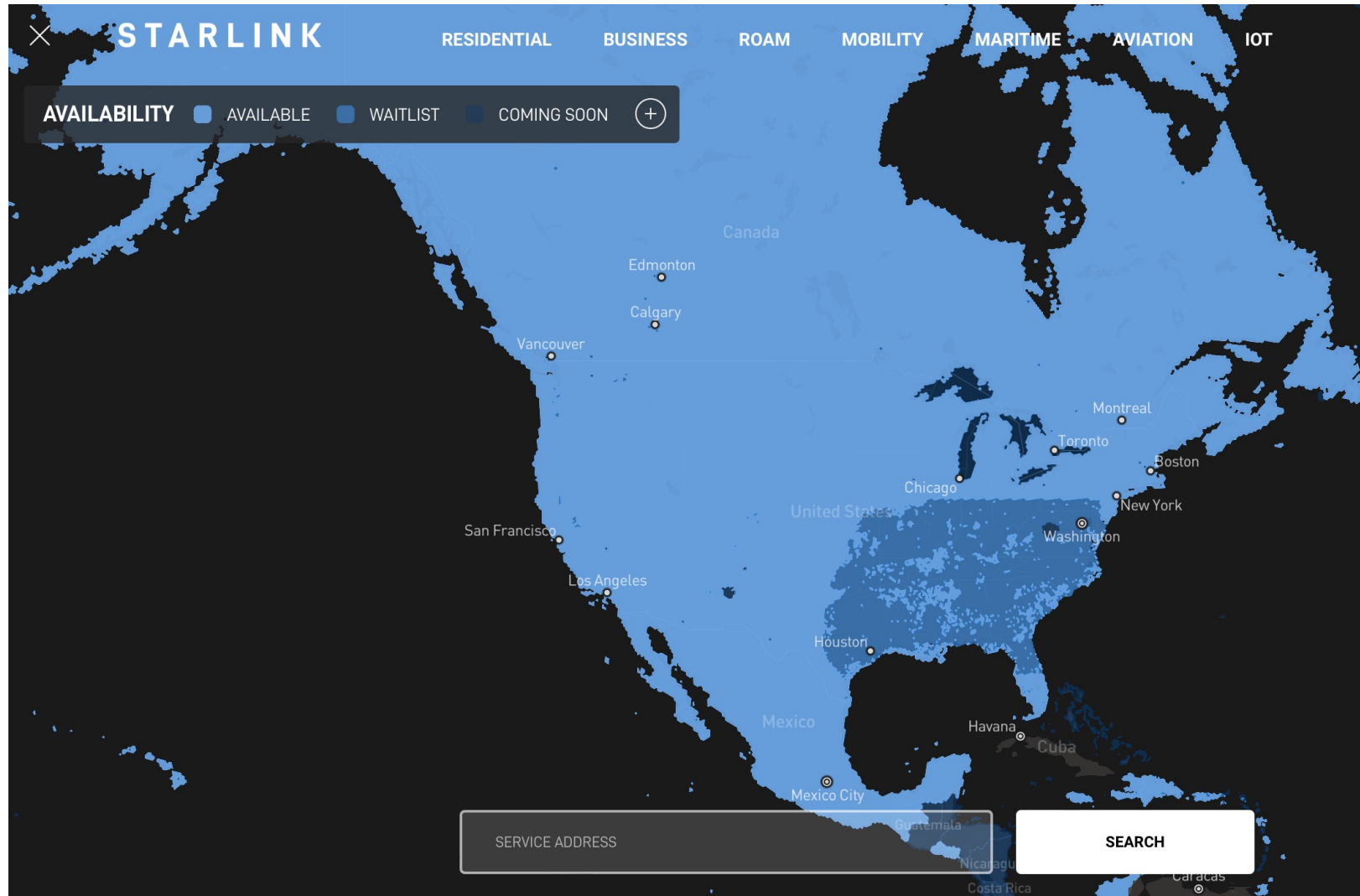


# Starlink Overview

- Initial service offering: 2019 (60 satellites)
- ~4,000 satellites (May 2023)
- ~12,000 planned, potentially more
- 1.5M subscribers (May 2023)



# Starlink Availability (June 2023)



# 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

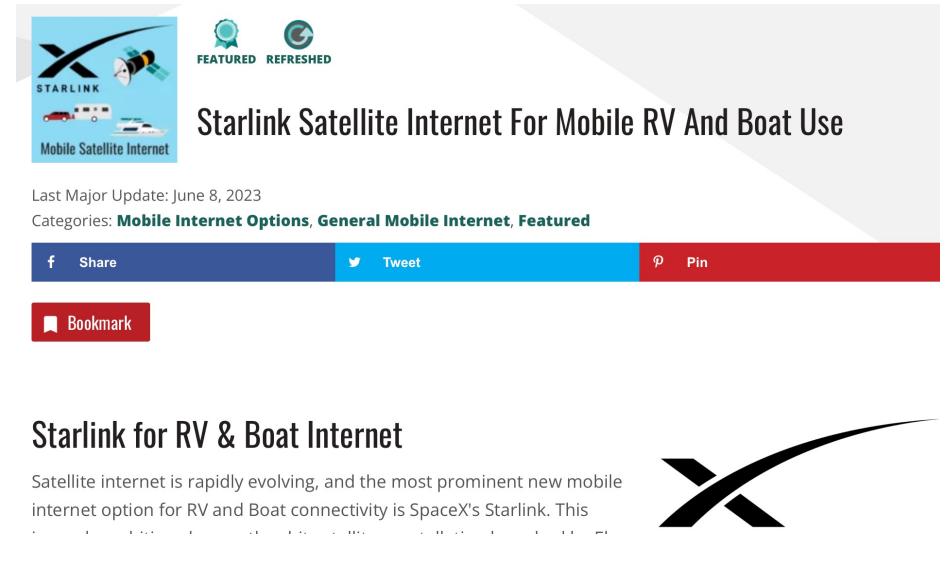
- Typically camp in heavily wooded areas.
- Are ok with cellular (native and hotspots) and/or public WiFi

## Maybe

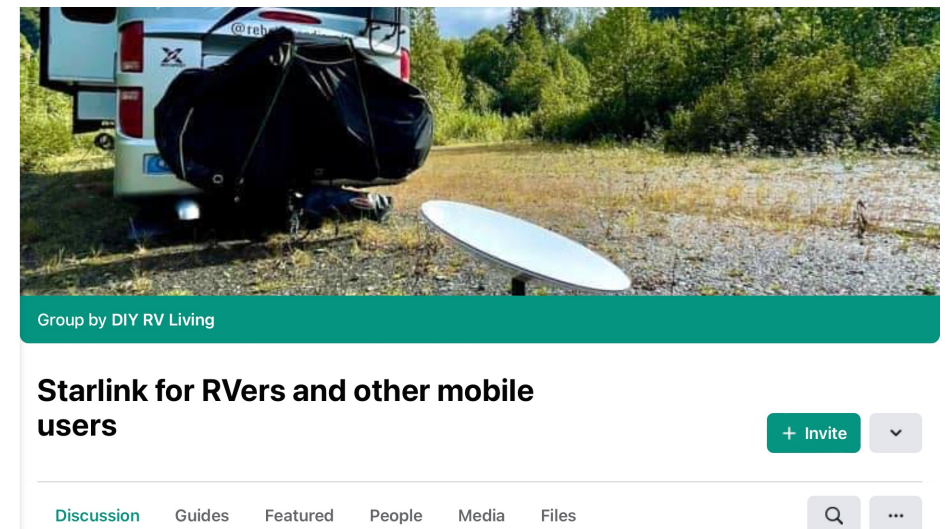
- Desire to reduce individual cellular plans (tablets, laptops).
- True “off-the-grid” boondocking or non-Airstream camping

# 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](#)



The screenshot shows a featured article on a website. At the top left is the Starlink logo with the text 'Mobile Satellite Internet'. To its right are 'FEATURED' and 'REFRESHED' badges. The main title is 'Starlink Satellite Internet For Mobile RV And Boat Use'. Below the title, it says 'Last Major Update: June 8, 2023' and 'Categories: Mobile Internet Options, General Mobile Internet, Featured'. There are social sharing buttons for Facebook (Share), Twitter (Tweet), and Pinterest (Pin), along with a red 'Bookmark' button. The article title is repeated as 'Starlink for RV & Boat Internet' with the Starlink logo to the right. The introductory text reads: 'Satellite internet is rapidly evolving, and the most prominent new mobile internet option for RV and Boat connectivity is SpaceX's Starlink. This...'



The screenshot shows a Facebook group page. At the top is a cover photo of a white RV with a Starlink satellite dish mounted on its back, parked in a wooded area. Below the photo is the group name 'Group by DIY RV Living'. The group title is 'Starlink for RVers and other mobile users' with a '+ Invite' button and a dropdown arrow. At the bottom, there are navigation tabs for 'Discussion', 'Guides', 'Featured', 'People', 'Media', and 'Files', along with a search icon and a menu icon.

# Starlink Service Plans (June 2023)

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

## ORDER STARLINK

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

[ORDER NOW](#)



## 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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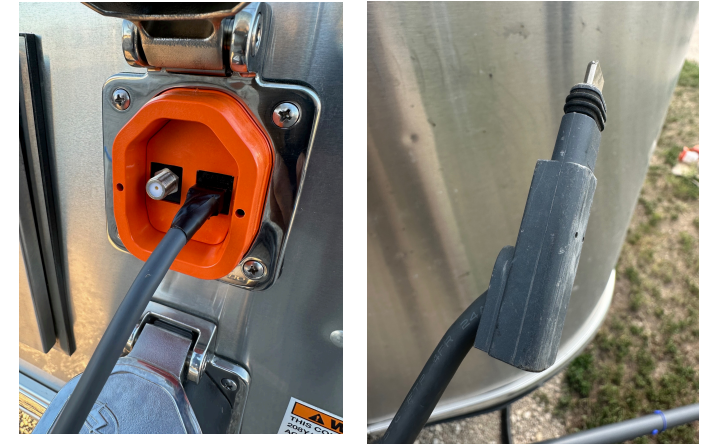
# Integrating into your Airstream *Phase #2 (30' Classic)*

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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](http://starlink.com))!



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



# 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 (!!)

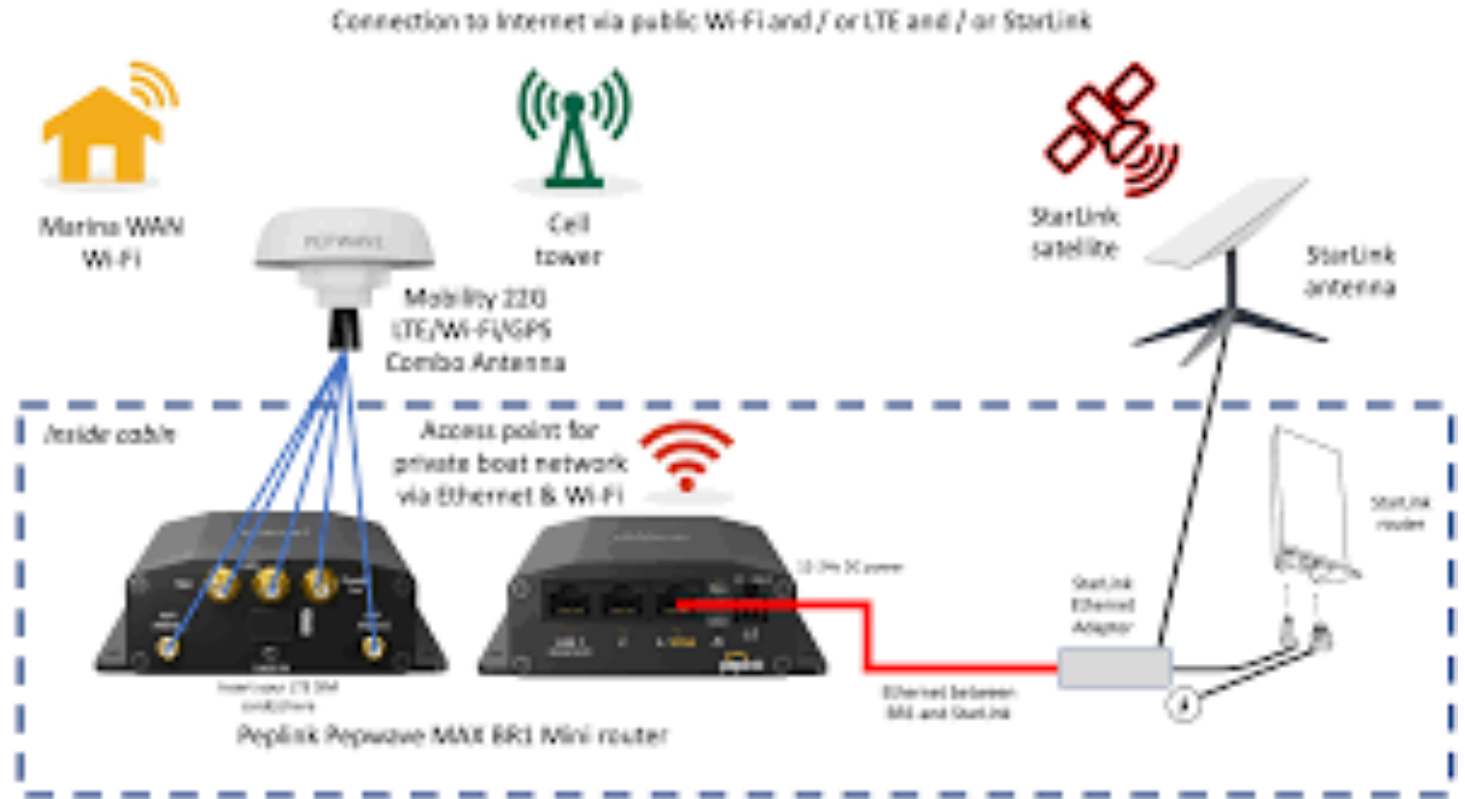
# Routing the Cable

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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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