



Starlink

Everything You Need to Know + Q&A

Starlink: Everything You Need to Know + Q&A

Fast reliable internet (almost) anywhere!

About Adam Zolyak

- 10+ years overlanding
- Camped at 100s of dispersed campsites
- Maker: software, 3D printing, teaching, photography, videography
- Home base near Denver, CO but often somewhere in the west



About Adam Zolyak



About Adam Zolyak



Agenda

What are we learning today?

1. Starlink Overview
2. Hardware
3. Service Plans
4. Connection Optimization
5. Mounting
6. Power
7. Storage

Slides + Follow Our Journey

Slides + Links to Resources

go.banthaoverland.com/expoeast24

Follow along for route planning and dispersed camping tips, DIY overland gear, and our travels mixing work and play

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The Hype Is Real

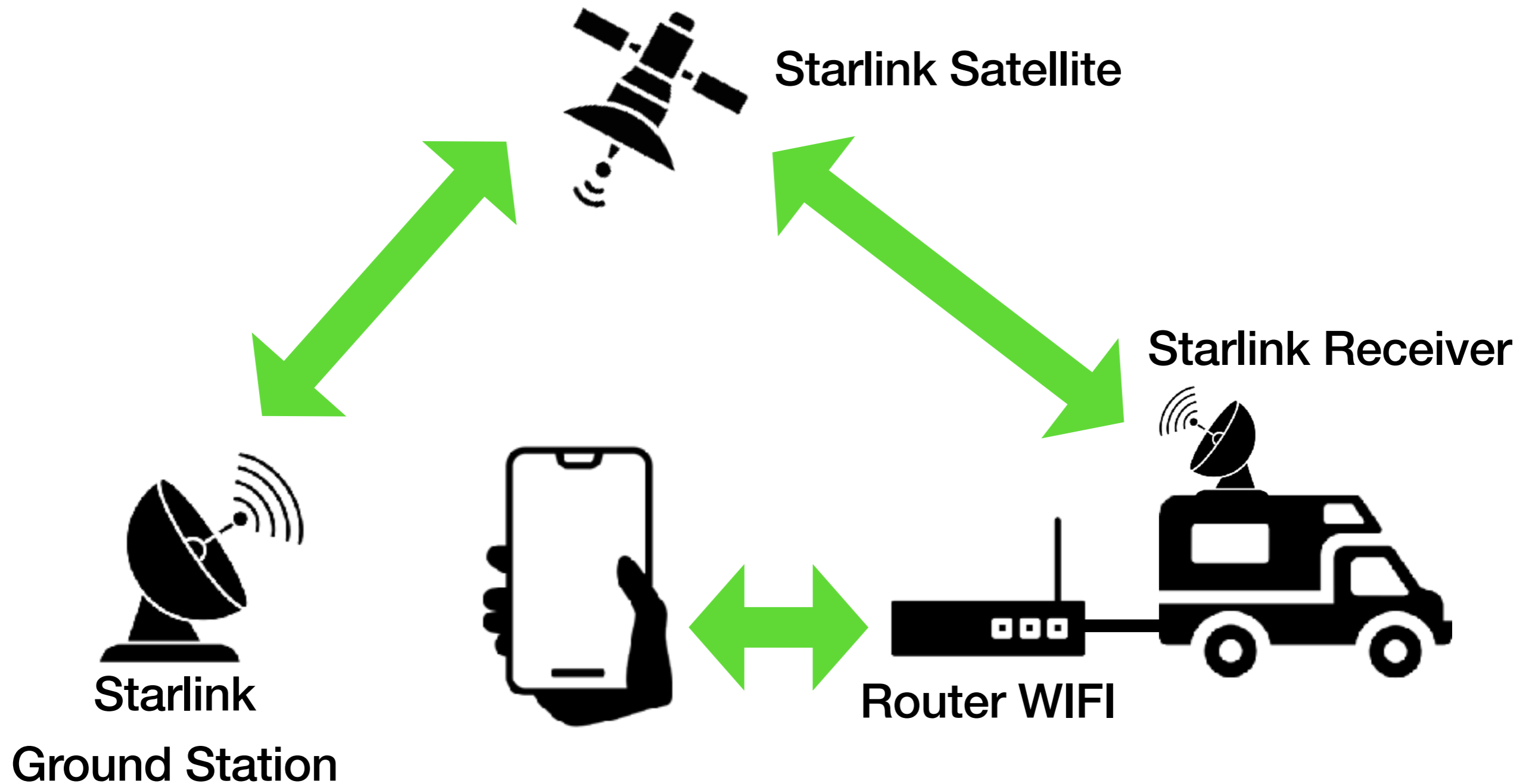
Why Starlink?

- Fast broadband internet
- Works almost anywhere
- Low latency
- 4 million subscribers and growing quickly



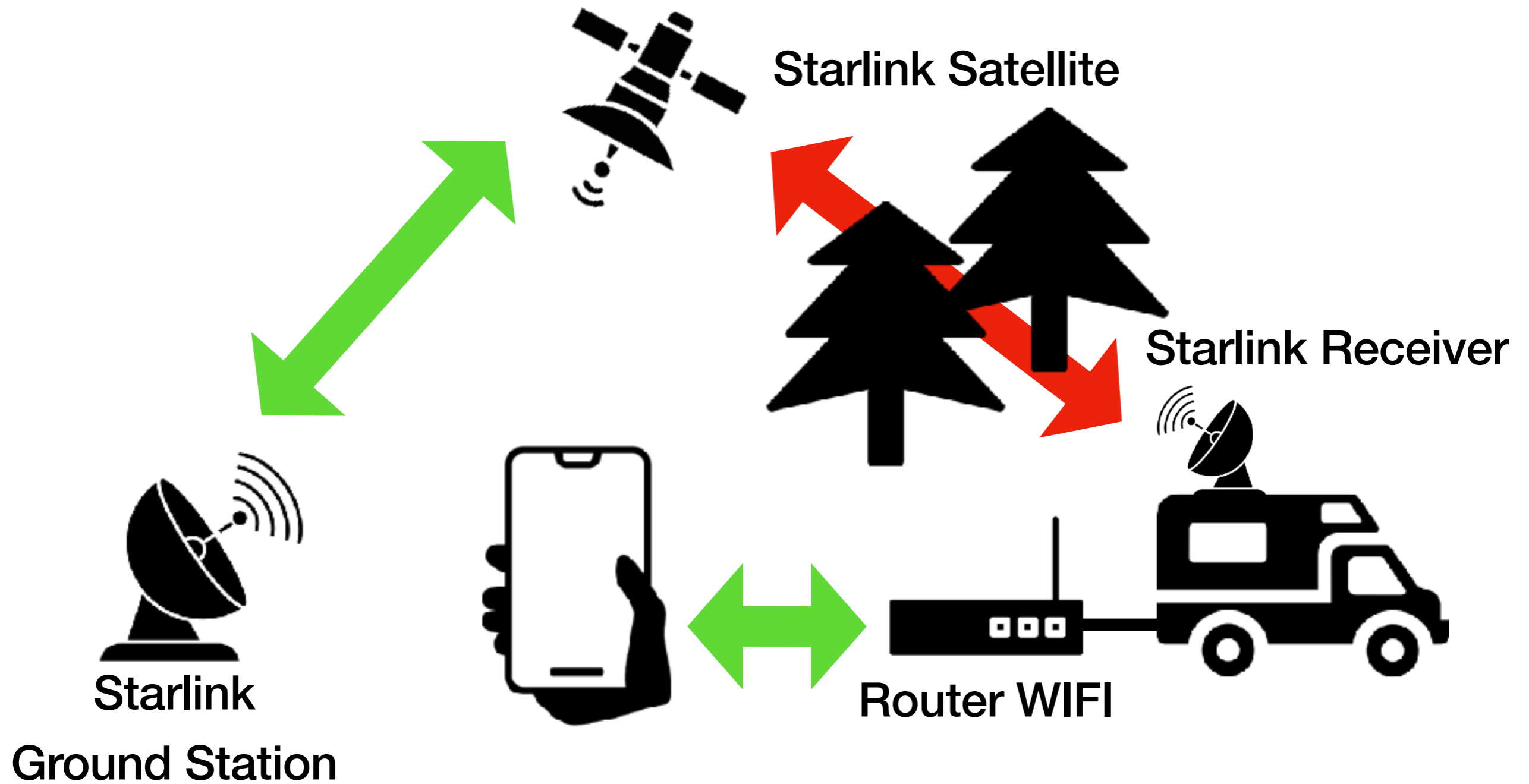
Starlink Overview

How does Starlink work?



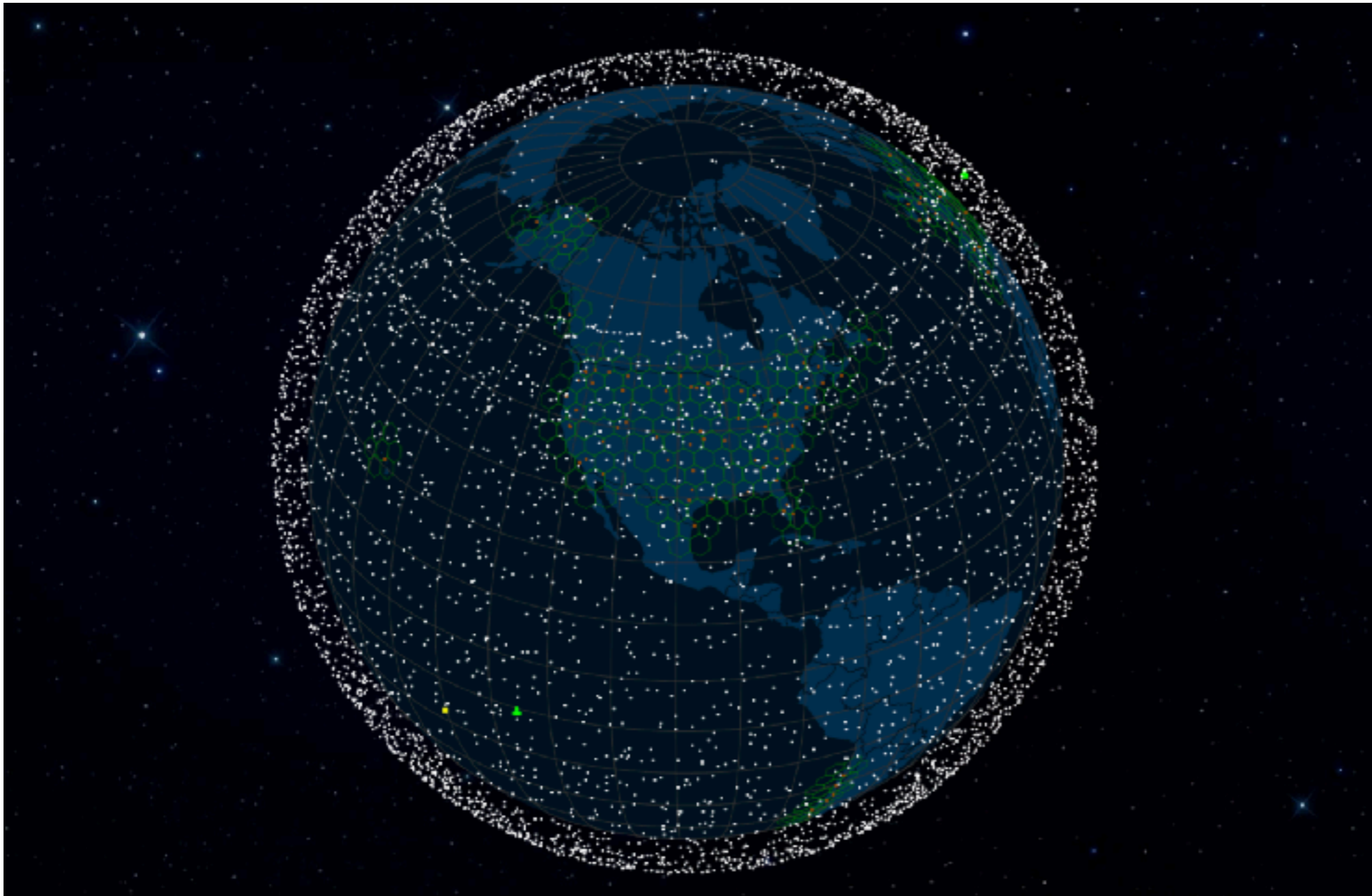
Starlink Overview

How does Starlink work?



Starlink Constellation

7,000 Starlink Satellites and growing



<https://satellitemap.space/>

Starlink Use Cases

- **Remote Work:** attend meetings, upload work
- **Planning:** download offline maps and routes
- **Safety:** check forest fire info
- **Recovery:** check an engine code and watch a YouTube video to fix



Example

Using Starlink at Camp

1. Find a **clear view of the sky** (preferably north facing)
2. **Setup Starlink** and power on
3. **Wait 5-10 minutes** for boot up and orientation
4. **Connect to router (WIFI)** and use internet



Starlink Hardware



Actuated



Standard



Mini

Starlink Hardware

<https://www.starlink.com/specifications>



Actuated

- \$300 used + service



Standard

- \$299 + service



Mini

- \$599 + service

Starlink Hardware

<https://www.starlink.com/specifications>



Actuated

- \$300 used + service
- AC power



Standard

- \$299 + service
- AC power



Mini

- \$599 + service
- DC w/ AC converter

Starlink Hardware

<https://www.starlink.com/specifications>



Actuated

- \$300 used + service
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- External router



Standard

- \$299 + service
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Mini

- \$599 + service
- DC w/ AC converter
- Integrated router

Starlink Hardware

<https://www.starlink.com/specifications>



Actuated

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- AC power
- External router
- Auto alignment



Standard

- \$299 + service
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- External router
- Manual alignment



Mini

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Starlink Hardware

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- Auto alignment
- More bandwidth



Standard

- \$299 + service
- AC power
- External router
- Manual alignment
- More bandwidth



Mini

- \$599 + service
- DC w/ AC converter
- Integrated router
- Manual alignment
- Less bandwidth

Starlink Service Plans

RESIDENTIAL	ROAM	BOATS
Best for households	Best for RVs, nomads, and campers, and working on the go	Best for maritime, emergency response, and mobile businesses
KEY FEATURES	KEY FEATURES	KEY FEATURES
Unlimited Data Fixed Location	Countrywide Coverage In-motion Use International Travel Coastal Coverage Pause Service	Unlimited Inland Data In-motion + Ocean Use Network Priority Priority Support
MONTHLY SERVICE PLANS	MONTHLY SERVICE PLANS	MONTHLY SERVICE PLANS
RESIDENTIAL \$120 /MO	ROAM - 50GB \$50 /MO ROAM - UNLIMITED \$165 /MO	MOBILE PRIORITY - 50GB \$250 /MO MOBILE PRIORITY - 1TB \$1,000 /MO
	<small>Users on Roam 50 GB are limited to 50 GB of data and can pay by the GB for additional data. For limitations on international travel, coastal coverage and in-motion use, see FAQ here.</small>	<small>Additional Mobile Priority Data available by the GB</small>

<https://www.starlink.com/service-plans>

Starlink Service Plans

ROAM

Best for RVs, nomads, and campers, and working on the go

KEY FEATURES

Countrywide Coverage

In-motion Use

International Travel

Coastal Coverage

Pause Service

MONTHLY SERVICE PLANS

ROAM - 50GB + \$1 per additional GB **\$50**/MO

ROAM - UNLIMITED **\$165**/MO

<https://www.starlink.com/service-plans>

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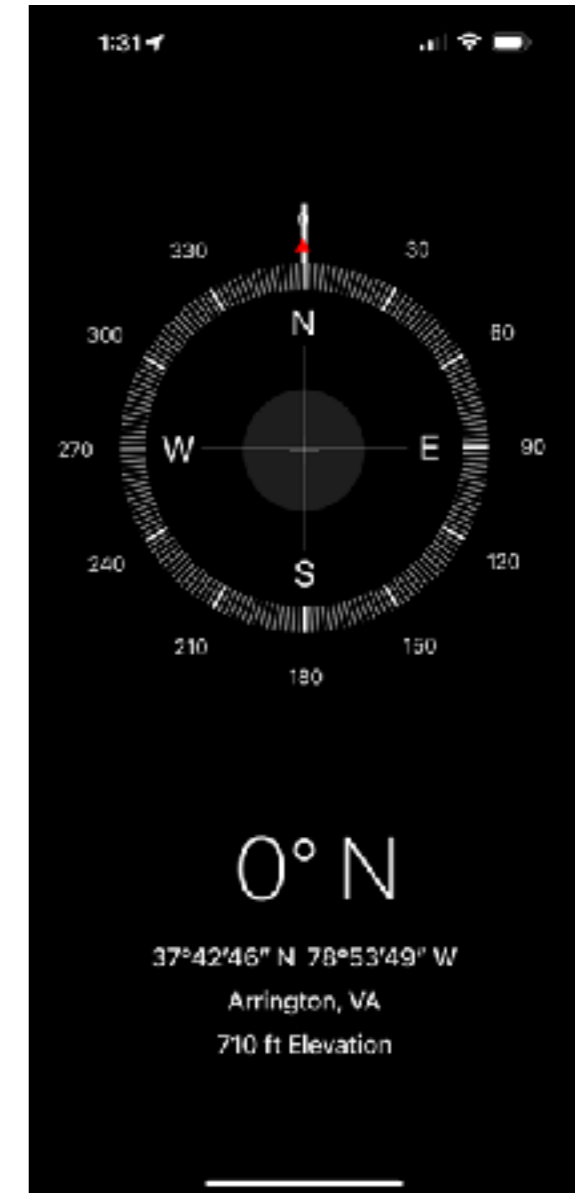
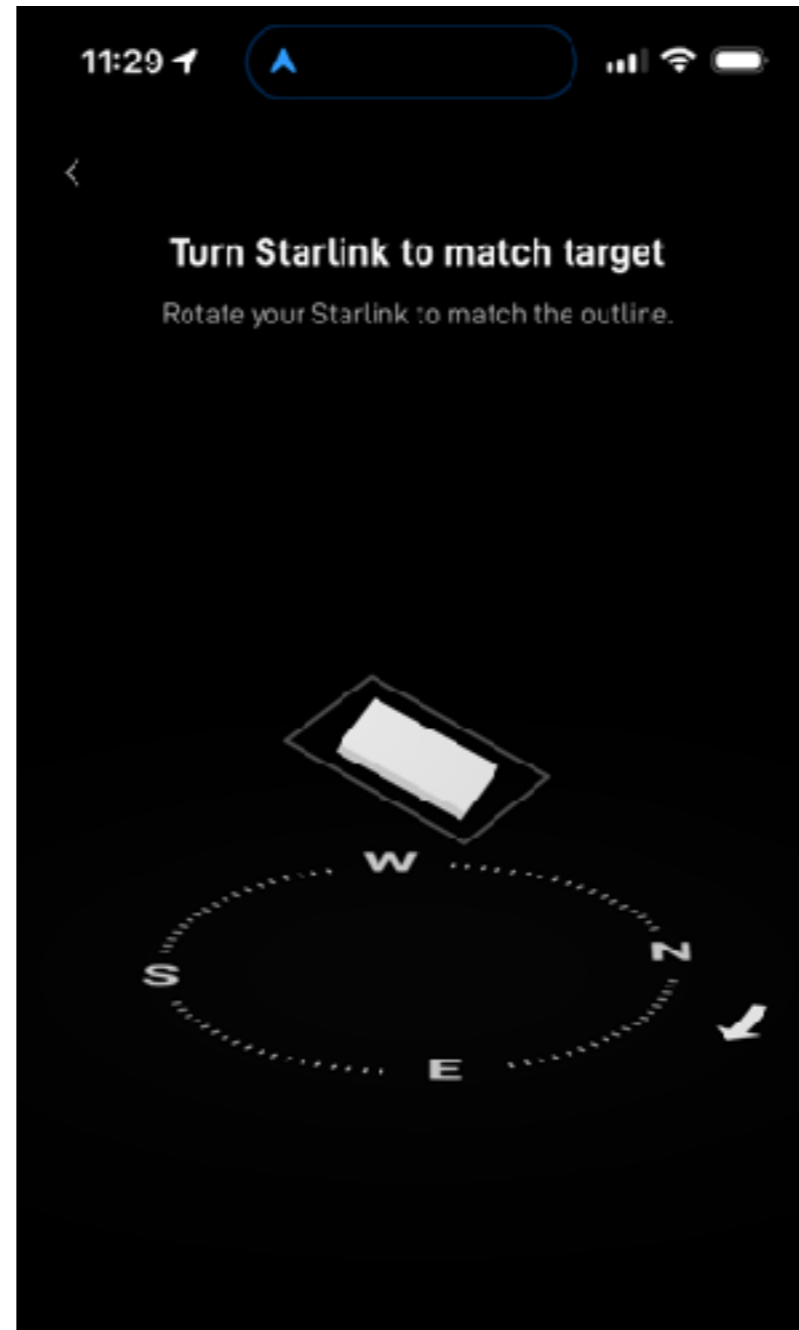
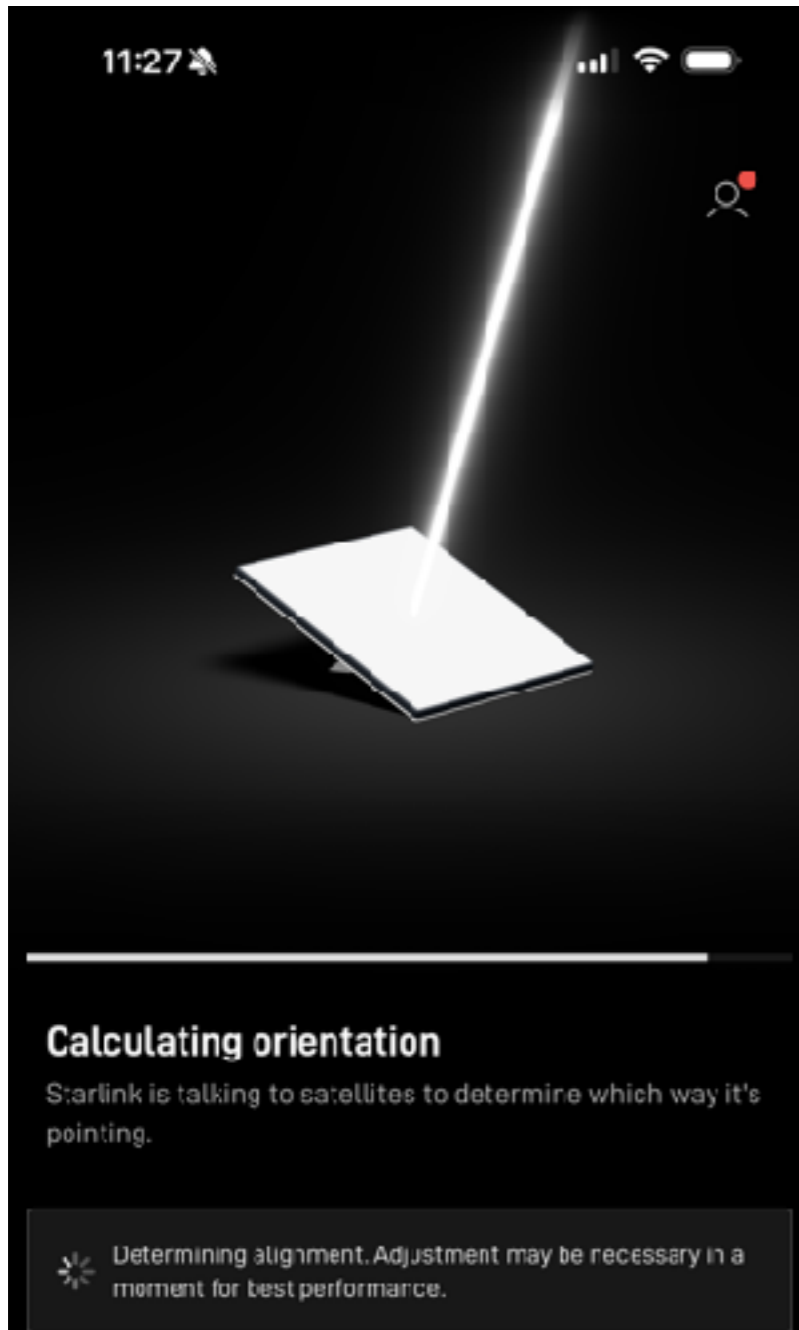
Connection Optimization

- Clear view of the sky
- Minimize obstructions (trees, rocks, etc)
- Facing directly north at a 45 degree angle (straight up also works well)
- Try different locations and orientations if needed



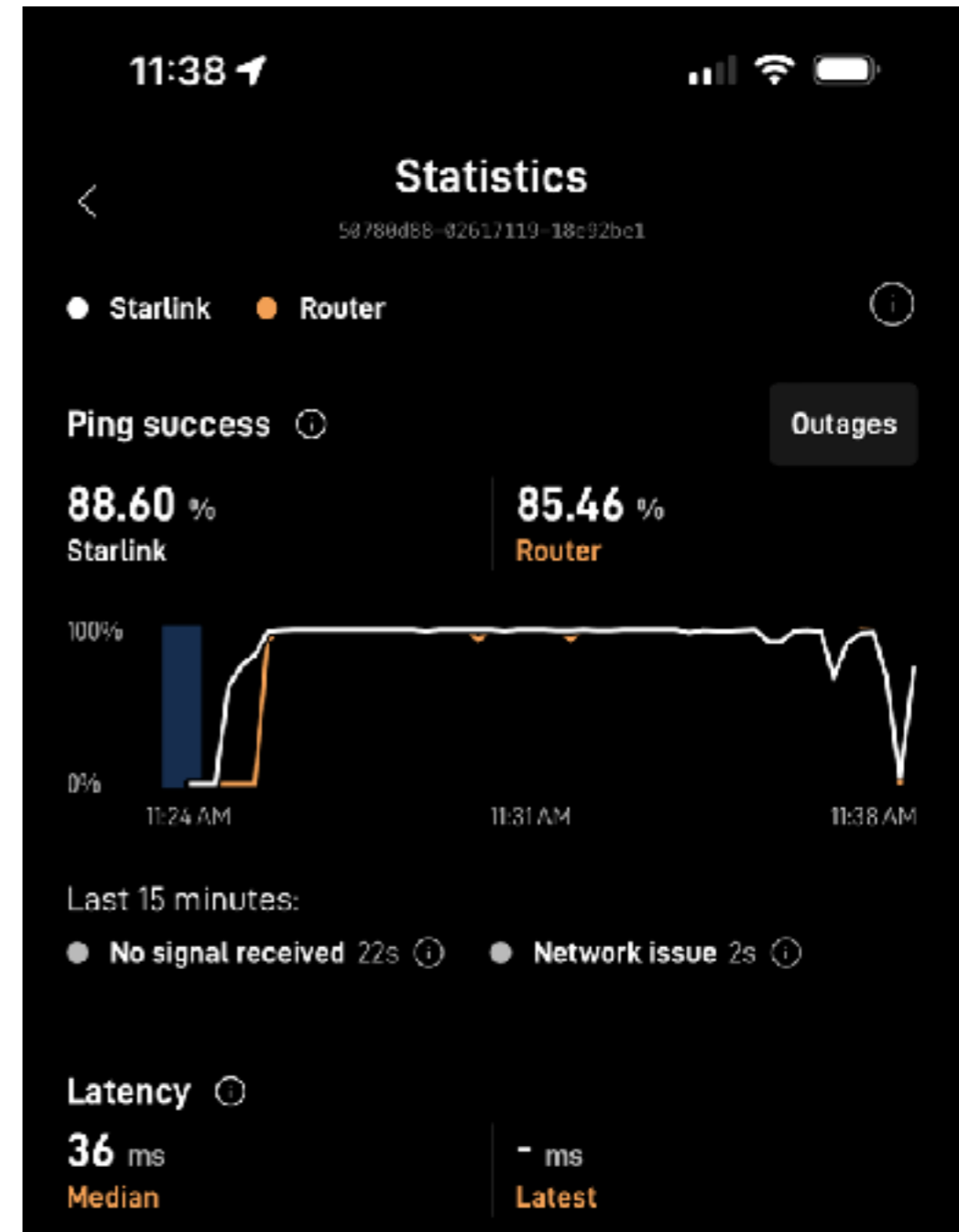
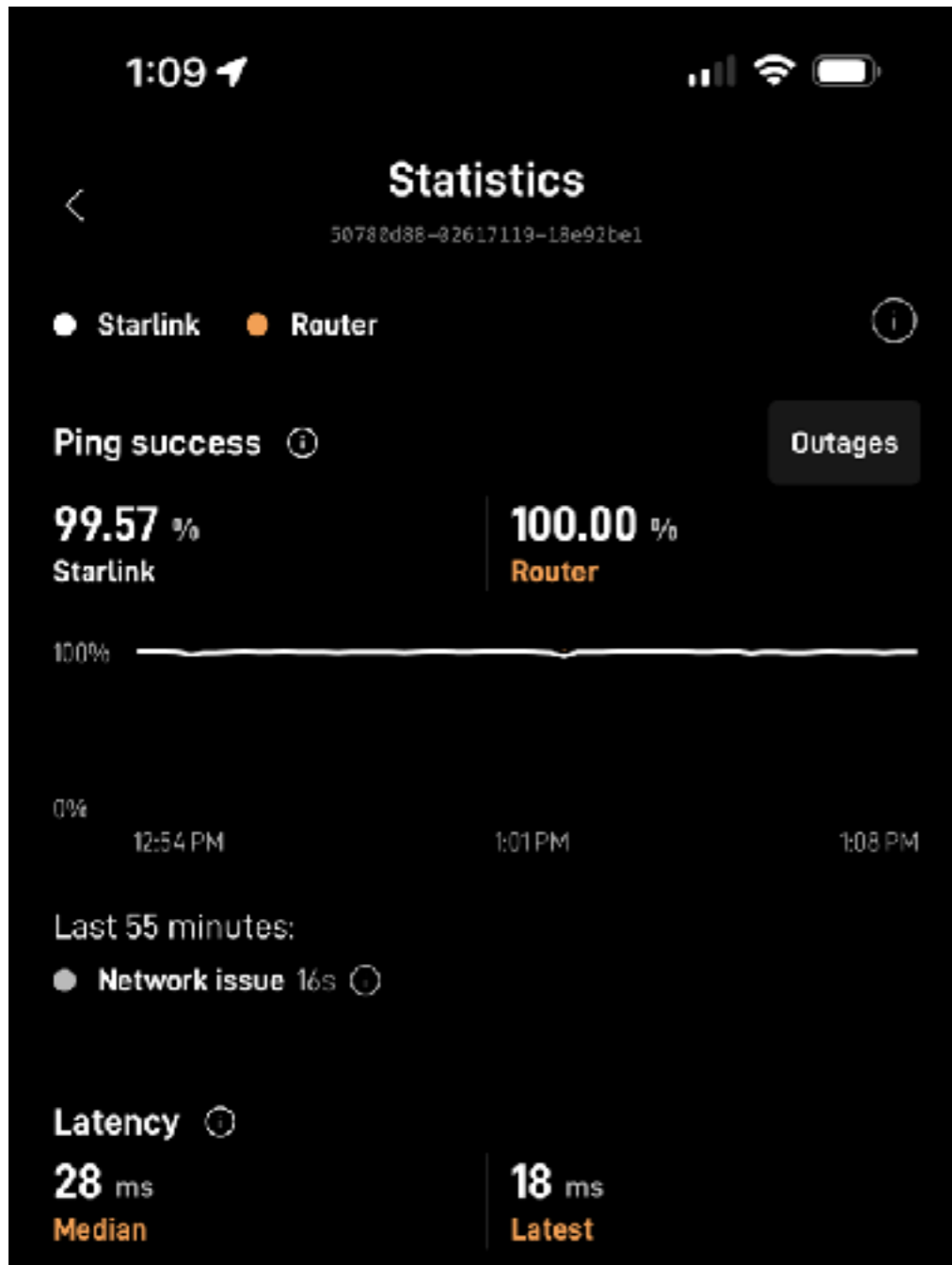
Connection Optimization

Booting Up



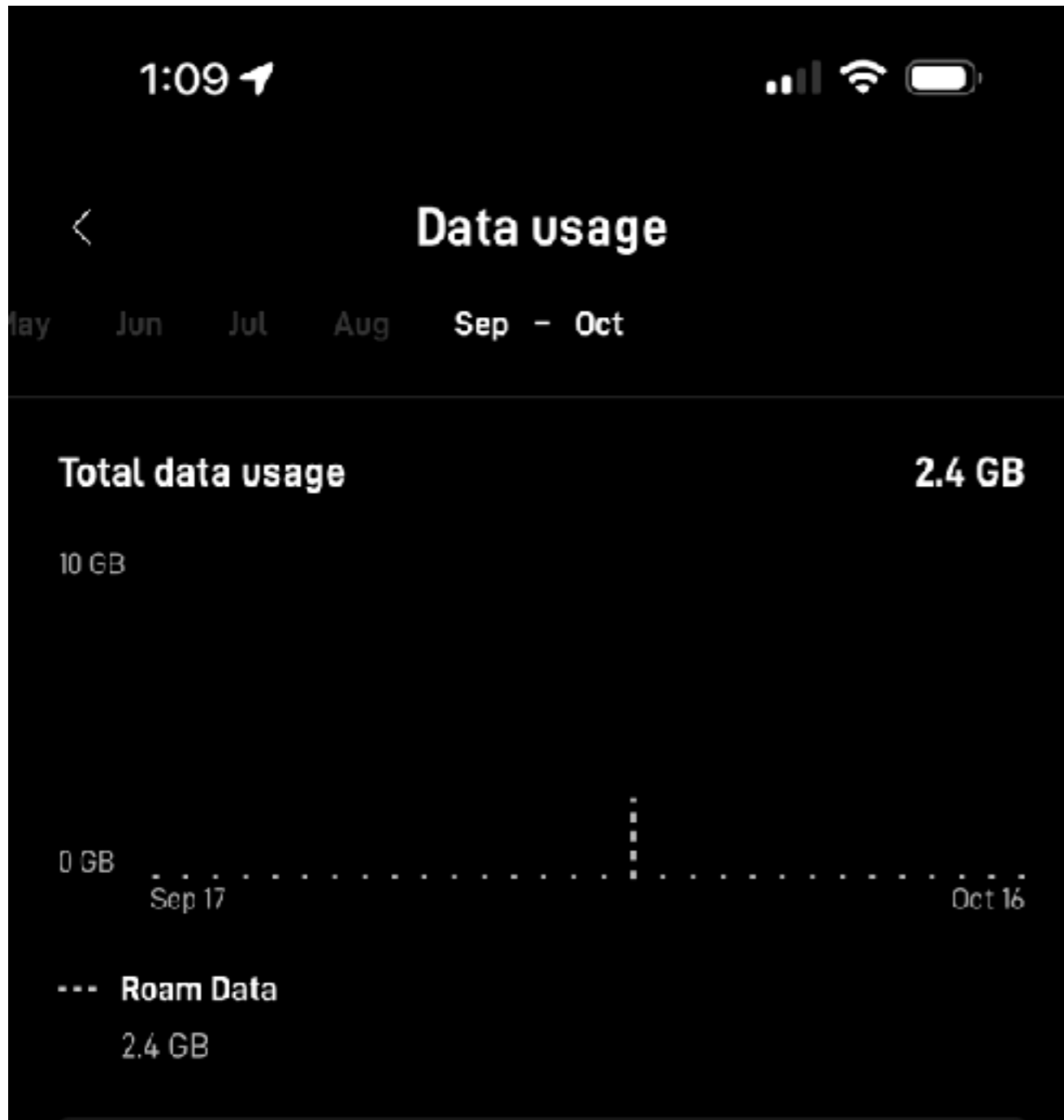
Connection Optimization

Great vs Ok



Connection Optimization

Data Usage



Mounting The Kickstand



Mounting The Kickstand



Mounting

At Camp / Stationary

- Pole
- RAM Mounts
- Tripod

<http://stardapter.com>



<https://shop.starlink.com/>



<http://stardapter.com>



Mounting

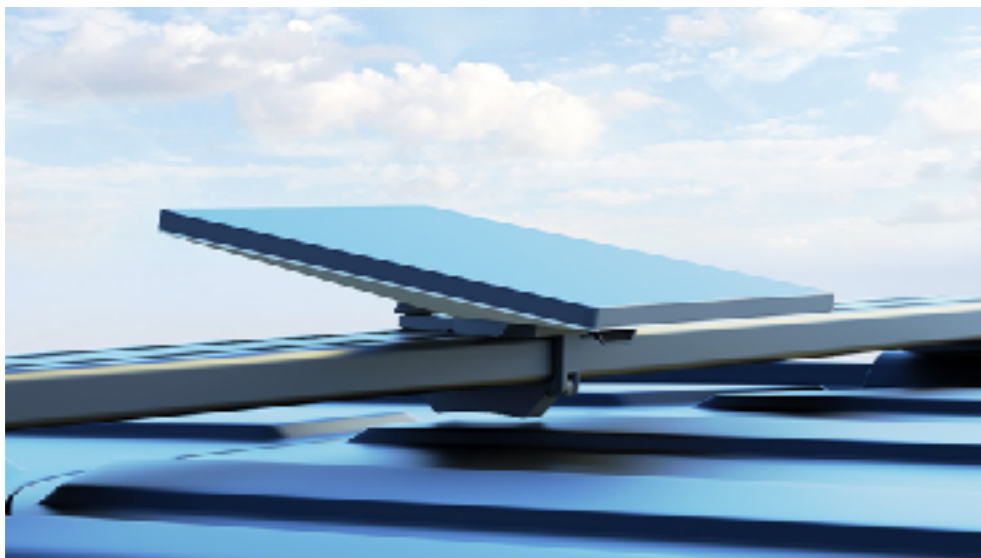
While Driving / In Motion

- Flat Mounting
- Mobility Mount
- Roof Bar Mount
- Window Mount

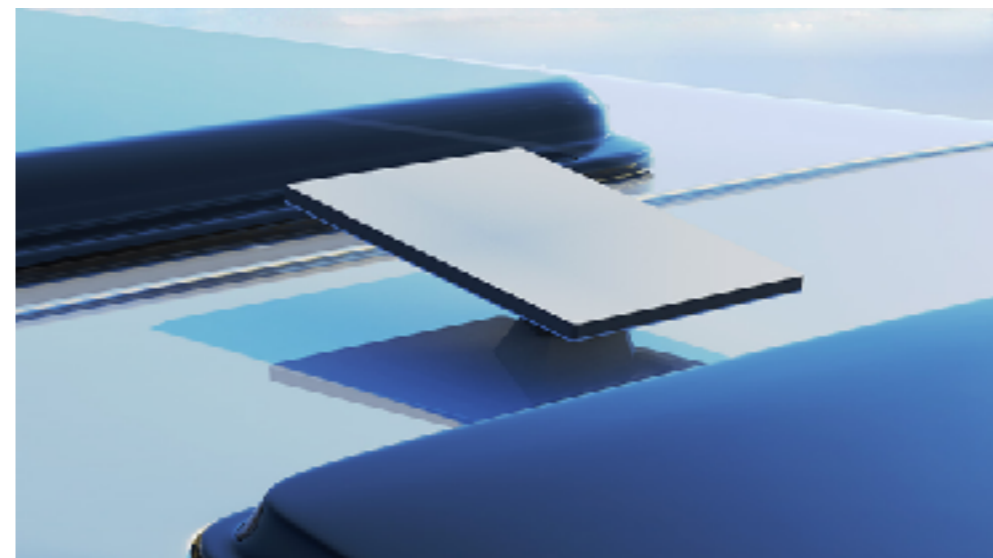
<https://star-mountsystems.com/>



<https://shop.starlink.com/>



<https://shop.starlink.com/>





Tip: Starlink On A Tripod

Get The Best Connection

Connection Optimization

Starlink on A Tripod



Connection Optimization

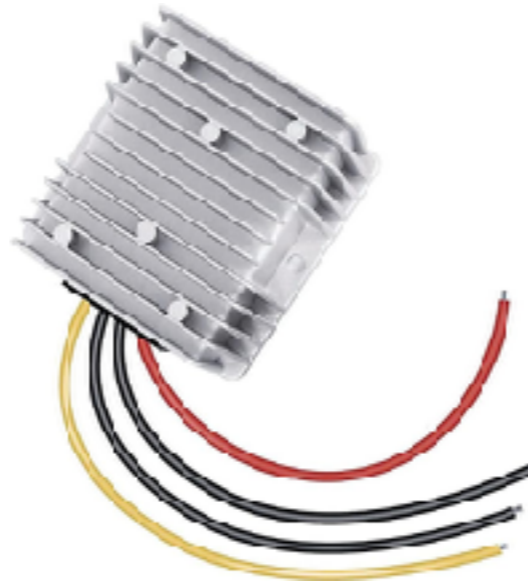
Starlink on A Tripod



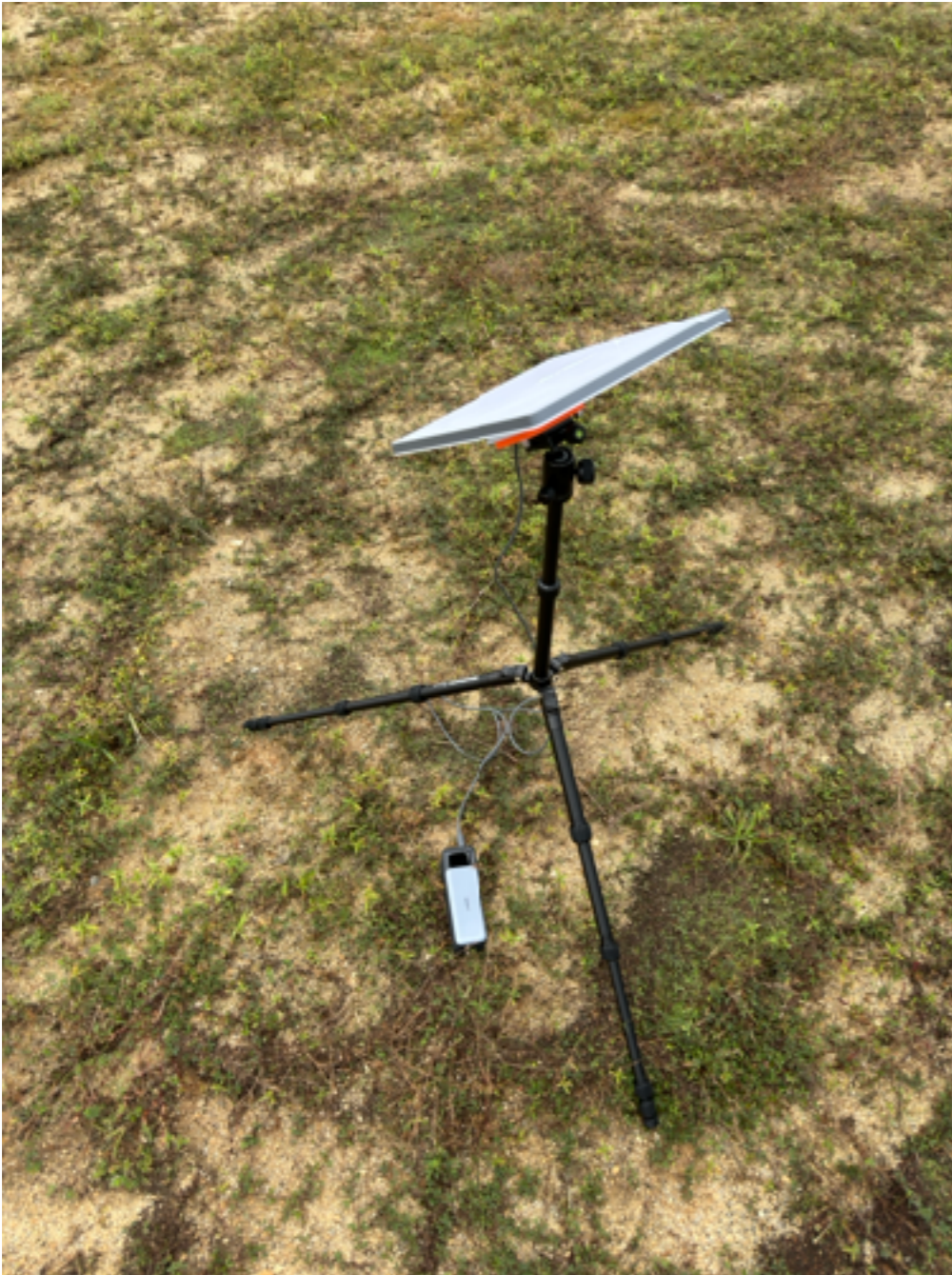
Power Starlink Mini

Input 12-48 volts DC

5.5mm x 2.1mm barrel jack connector



Power Starlink Mini





“Internet Hour”

Turn It On, Be Intentional, Turn It Off

Remote Work

When The Sun's Up (~9am - 5pm)



Storage Cases



Learn More

@BanthaOverland on YouTube



The Missing Starlink Accessory - Get A Better...

Bantha Overland
4.4K views • 1 month ago



Starlink Mini vs Standard? Real Starlinks Compared -...

Bantha Overland
40K views • 1 month ago



Is Starlink's Mini Roam plan enough? Does Roam...

Bantha Overland
4K views • 1 month ago

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Slides + Links to Resources

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