

# HughesNet Mobile Ka-band Services by MobileInternetSatellite.com

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Mobile Gen 5 HughesNet is now sanctioned through the VAR channel. The equipment pricing is somewhat higher through the VAR channel and includes a required larger dish. But, mobile systems are now available! Having a mobile account allows you to move as often as you like, without notifying anyone! No phone is needed.

The best thing about the bigger dish is that it makes you virtually immune to rain fade and will stretch the signal coverage a little further into Canada and Mexico. There is a metal and a fiberglass dish, though the fiberglass may not be available in the future.

If you only move a couple of times a year, you can choose a residential service, which will save you money on the equipment and on the monthly service rate. However, it requires you to contact us after you set up and align your antenna, so I can get your account relocated to the new beam. And, Hughes is making this more difficult now and may impose a relocation fee in the future.



**Tripod Setups – .90 m Antenna (left), .74 m Antenna (middle) & .98 m Antenna (right)**

**Figure 1.** The yellow all-fiberglass tripods are made by Seco. The all-aluminum offset adapter is custom manufactured. The dish on the far right is the .98 m fiberglass dish, which is 3' 3" in diameter. In the middle is the .74 m dish, which is 36.5" x 26". The .90 m metal dish is 3' 1" in diameter and there are no side support braces, which makes for a simpler setup. The fiberglass is 6 lb heavier, but it is also sturdier.

## Two Satellites Providing Gen 5 Services

Gen 5 services are provided by two satellites, Jupiter 1 (EchoStar XVII) and Jupiter 2 (EchoStar XIX). Jupiter 2 was launched on December 8, 2016 and is providing Gen 5 services coast-to-coast. Jupiter 1 is now providing Gen 5 services in its coverage area, which increases available bandwidth in the higher population areas.

## Gen 5 Coverage

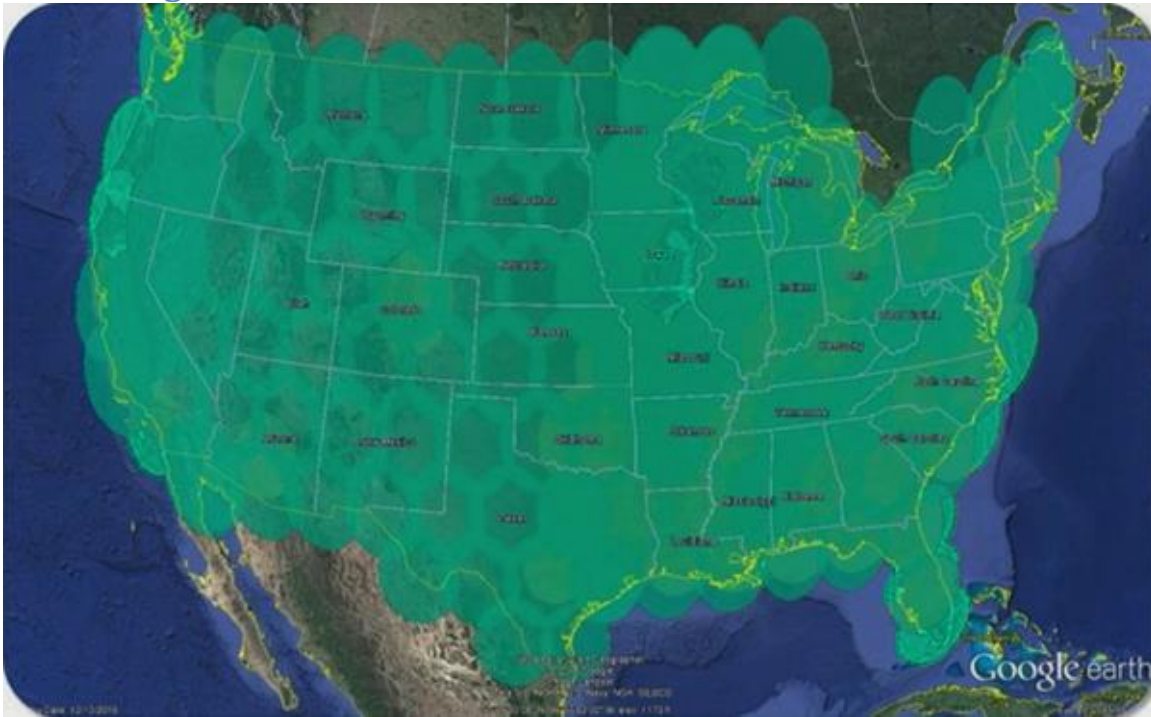


Figure 2. Gen 5 services are available from coast-to-coast!

## Residential/Consumer Jupiter Gen 5 Service Plans

	10 GB Plan	20 GB Plan	30 GB Plan	50 GB Plan
<b>Anytime Data</b>	10 GB	20 GB	30 GB	50 GB
<b>Bonus Data</b>	50 GB	50 GB	50 GB	50 GB
<b>Monthly Rate</b>	\$49.99	\$69.99	\$99.99	\$129.99
<b>Download/Upload</b>	25 Mbps/3 Mbps	25 Mbps/3 Mbps	25 Mbps/3 Mbps	25 Mbps/3 Mbps

Here are some more details about the service plans:

- Anytime data is available 24 x 7.
- Bonus data is available from 2 am to 8 am.
- The modem has a built-in Wi-Fi router.
- There is a 24-month commitment for all plans.
- Video streams in DVD quality, by default, but can be changed.
- There are no hard data limits. If plan data is depleted, you will be slowed to 1-3 Mbps.
- Tokens can be purchased for more data: 3 GB/\$9, 5 GB/\$15, 10 GB/\$30, 25 GB/\$75
- Hughes offers frequent discounts on hardware, installation and monthly rates.

**Note:** Data speeds are not guaranteed.

## VAR/Mobile Jupiter Gen 5 Service Plans

Business Mobile 35	Business Mobile 50	Business Mobile 75	Business Mobile 100	Business Mobile 150	Business Mobile 200
Basic connectivity with multiple devices	Great for up to 5 users with light to moderate needs.	Optimal for up to 5 users with more substantial needs.	Perfect for up to 10 users with light data needs.	Good plan for up to 10 users who use the Internet often.	Works well for up to 10+ users with moderate needs.
<b>10 GB + 25 GB</b> Anytime Business Data (8am-6pm)	<b>25 GB + 25 GB</b> Anytime Business Data (8am-6pm)	<b>50 GB + 25 GB</b> Anytime Business Data (8am-6pm)	<b>75 GB + 25 GB</b> Anytime Business Data (8am-6pm)	<b>100 GB + 50 GB</b> Anytime Business Data (8am-6pm)	<b>150 GB + 50 GB</b> Anytime Business Data (8am-6pm)
<b>35 GB Total</b>	<b>50 GB Total</b>	<b>75 GB Total</b>	<b>100 GB Total</b>	<b>150 GB Total</b>	<b>200 GB Total</b>
<b>\$89.99/mo.</b> w/24 month contract	<b>\$119.99/mo.</b> w/24 month contract	<b>\$169.99/mo.</b> w/24 month contract	<b>\$219.99/mo.</b> w/24 month contract	<b>\$289.99/mo.</b> w/24 month contract	<b>\$389.99/mo.</b> w/24 month contract
<b>Tokens</b> (For Extra GB) - <b>\$3 per GB</b> - Available in 1 GB, 2 GB, 3 GB, 5 GB, 10 GB, 20 GB, 25 GB, 30 GB, 40 GB, and 50 GB quantities.					

Here are some details about the Business/Mobile service plans:

- Anytime data is available 24 x 7.
- Bonus data (also called Business data) is available from 8 am to 6 pm Central time.
- Most optional residential services are not available with these plans.
- You get a myhughesnet.com account and email addresses, but it will be a little different because it is a VAR account. You will see some of the VAR's information in the detail.

**Note:** Data speeds are not guaranteed.

### HughesNet & Mobility Equipment

There are three categories of items needed for a complete mobile setup:

- A HughesNet Gen 5 Ka-band system:
  - Residential – \$449.99 (Minus currently available HughesNet discounts.)
  - VAR/Mobile – \$675.00 (fiberglass) or \$695.00 (metal)
- MobileInternetSatellite.com (MIS) services:
  - Residential – \$250.00: Services include account setup, equipment assembly, documentation, training (in-person or via telephone) and 90 days of unlimited telephone support. Email support and short phone calls are always free. This fee is discounted by half if you will not be moving it once it is online.
  - VAR/Mobile – \$125.00: Account setup and training, either in-person or via unlimited telephone time, all setup services including mount assembly and preset of elevation, testing of all electronic components, and full access to all documentation. Follow-up support is included in the monthly service fee.
- Mobility kit – This is all the additional items needed to set up and go online wherever you are. The standard mobility kit is less than \$600.00. The total can change based on optional items ordered or standard items that are not needed. Shipping and tax (in AZ) are additional. An itemized list is shown on the next page.

**Note:** To learn about each item and how it is used, please see [What Do You Need?](#)

For current pricing of all items, please see the [Equipment & Services](#) page.

## A Standard Mobility Kit for Jupiter Service

The following items comprise the standard mobility kit:

- Cables – See [typical cable path](#):
  - Outside cable – 1 20' & 1 30' – Two cables provide flexibility & troubleshooting help.
  - Pigtail cable – Goes from the radio on the end of the arm to the meter.
  - Inside cable – Goes from back of coax connector box (from inside) to the modem.
  - Single Exterior Coax Connector – Provides connection point for long outside cable.
- Tripod mounting system:
  - Tripod
  - Offset adapter
  - Hardware to attach offset to tripod
  - Ballast strap
- Setup & Alignment items:
  - DAPT2 meter
  - Torpedo level – Must be 6" or shorter
  - Compass or compass/inclinometer (See below)
  - System Knobs
  - Laminated setup card

## Additional Optional Items

The following items can enhance your setup or enjoyment of your Internet service:

- Tools – Many RVers already have most or all of these tools:
  - Socket, 3/8 In Drive, 1/2 In, 12 Pt – Used only if you use fine azimuth adjustment knob
  - Socket Extension, 3/8 x 3 In – Used only if you use fine azimuth adjustment knob
  - Hand Ratchet, 3/8 In Drive – Used only if you use fine azimuth adjustment knob
  - Ratcheting Combo Wrench, 12 Pt, 1/2 in
  - Ratcheting Combo Wrench, 12 Pt, 7/16 in
  - T-Handle Driver, 3mm, 5 1/2 in – You will need this to change polarity!
  - Screwdriver, Phillips #2
  - Leatherette Bag - holds meter and tools
- Compass/Angle Finder – Instead of the standard compass, this stainless-steel instrument also sights elevation, to help you find “the hole in the trees”.
- Foldable Tripod Stabilizer Floor Guide – This provides enhanced stability when using a tripod on hard surfaces such as concrete. It prevents the tripod legs from spreading too far.
- Heavy-duty tripod bag – This canvas tripod bag keeps the dirty tripod feet from getting other items in the storage area dirty and the feet from "catching" on other items.
- Coax cable tools – These tools are used to put new compression connectors on your coaxial cables. Regular cable maintenance can prevent problems down the road.
- Alternate mounts – The standard trimast has been used for what I call “[Creative mounting solutions](#)”. The non-penetrating roof mount is a good solution for windy environments.