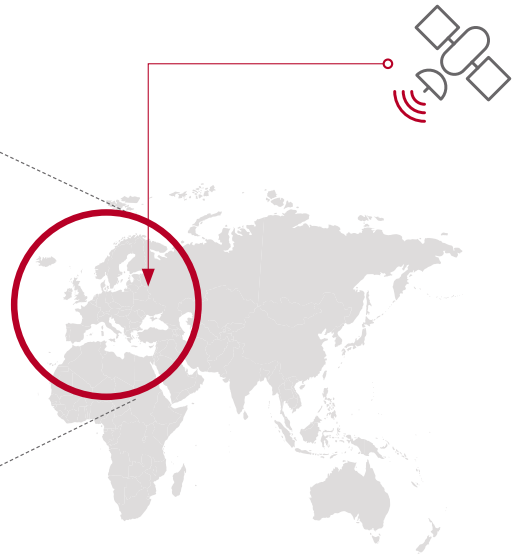


The future is now...





Keeping your people and your data connected has never been more important. EchoStar Mobile delivers reliable, affordable solutions that can provide your business with the connectivity you need to make sure your people and your devices can communicate across Europe.

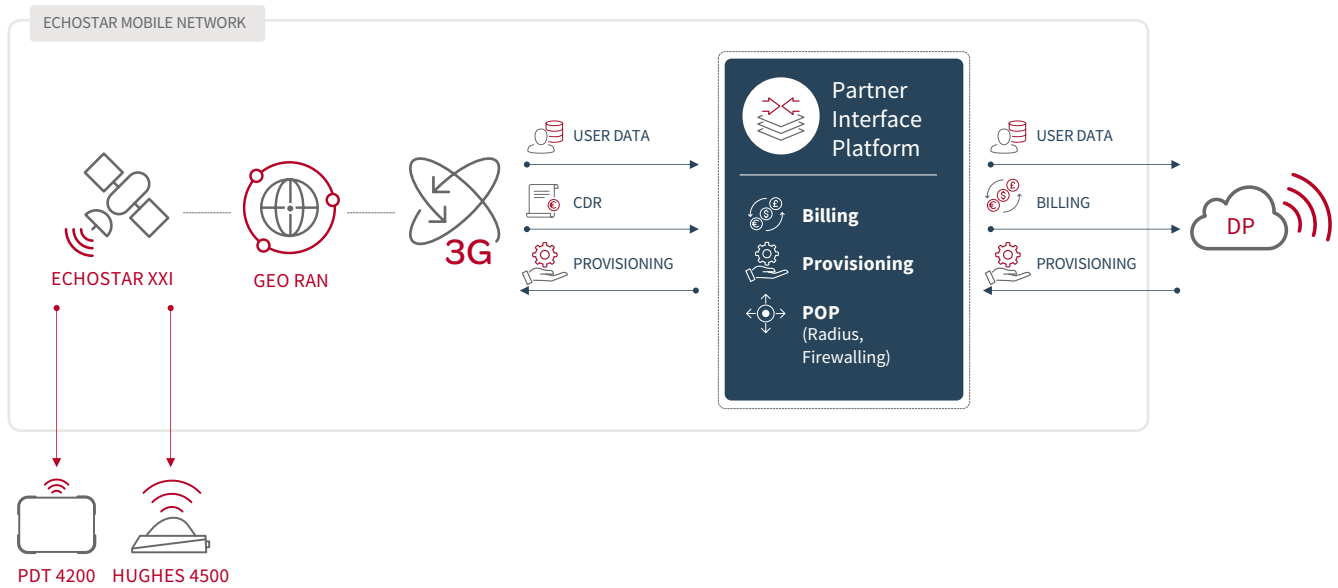
With a range of voice and data services and a choice of terminals, EchoStar Mobile ensures that whether on land or at sea, at fixed sites, or on the move, users are guaranteed a highly available seamless service across Europe and the UK (including the Mediterranean and the North Sea).

EchoStar Mobile holds an S-band MSS and Complementary Ground Component (CGC) license that can offer mobile voice and data services with complete coverage across Europe. EchoStar Mobile's S-band spectrum enables our mobile service provider partners to operate in the 2 GHz S-band range. Also, with rights to 15 MHz x-15 MHz paired spectrum, EchoStar Mobile can coordinate services across Europe in a single spectrum range.

#### Satellite Facts:

- State-of-the-art S-band satellite
- MSS satellite with Ka-band feeder links
- Located at 10.25°E
- Designed with an 18-metre antenna reflector, enabling use of smaller antennas for mobile services, including M2M and IOT
- Owned and operated by a division of the U.S.-based EchoStar Mobile parent company, EchoStar Corporation

# Satellite Services



## EM ADVANTAGE™

The EM ADVANTAGE™ service is designed to support you by delivering reliable, redundant communications to the people and places that require it. Highly portable, EM ADVANTAGE™ services are ideal for use in locations where terrestrial connectivity is not readily available or reliable. This best-of-breed, Mobile Satellite Service provides resilient coverage by leveraging S-band satellite spot beams and our Hughes 4200 PDT's extensive capabilities. Connectivity is ensured even in the event your terrestrial network fails.



### Features

- Comms on the Move (COTM)
- Comms on the Pause (COTP)
- Configurable Streaming Services
- Voice services

## EM MOMENTUM™

EM MOMENTUM™ services are ideal if you're looking for an affordable and reliable option for fixed or mobile IP data connectivity. EM MOMENTUM™ services will help you keep an always-on connection to remote sites that are regularly reporting critical M2M data. With pricing packages designed with ultra-low billing increments, this solution is ideally placed to serve the needs of M2M. And with the ability to deliver connectivity to mobile assets that are constantly on the move.



### Features

- Comms on the Move (COTM)
- Comms on the Pause (COTP)
- Remote FW Upgrade
- Remote terminal Management

## EM CONTINUITY™

Even the most robust primary communications need the reassurance of high quality, highly resilient backup solutions to ensure that whatever the situation, critical data is never disrupted.

EM CONTINUITY™ is a cost-effective solution using EchoStar Mobile's S-band services to ensure that services are always online even in the harshest conditions.



### Features

- Cost-effective backup connectivity
- Comms on the Move (COTM)
- Comms on the Pause (COTP)



## Hybrid Services

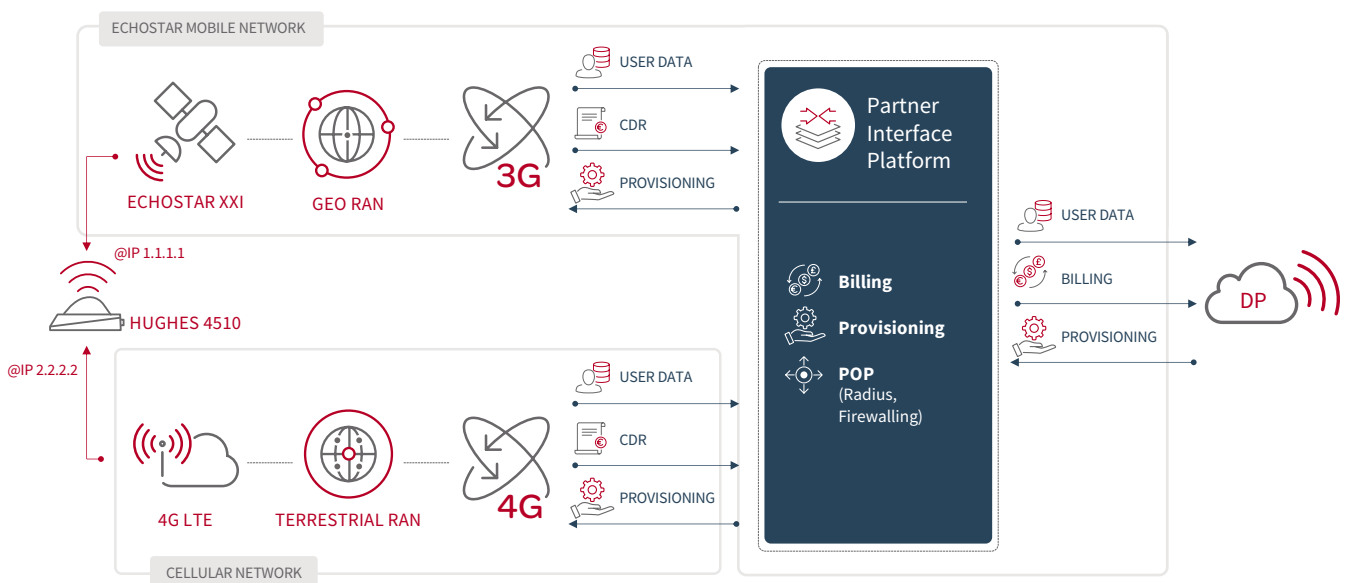
### SYNERGY™

EM SYNERGY™ is the ideal service if you are looking for a ubiquitous connectivity solution from dense urban areas to remote sites. With EchoStar Mobile's comprehensive S-band coverage area, augmented by over 125 cellular networks, EM SYNERGY™ brings hybrid connectivity to users, applications, and assets across Europe and the UK, be they at fixed locations or on the move. With pricing packages designed to deliver the best of cellular and satellite connectivity from a single subscription, EM SYNERGY™ is the ideal solution, whether for single individual sites or large fleets of devices sharing a single price plan.

**Versatile, reliable, affordable connectivity**

### Features

- S-band Satellite
- Integrated pan-European Cellular Roaming hybrid connectivity
- Single provisioning & management interface for both networks
- Comms on the Move (COTM)
- Comms on the Pause (COTP)
- Remote terminal Management



# EchoStar Mobile Data Terminals



Terminal

Hughes (PDT) 4200

Hughes 4500

Hughes 4510

Terminal	Hughes (PDT) 4200	Hughes 4500	Hughes 4510
Size	233 mm x 293 mm x 51 mm	248 mm x 178 mm x 115 mm	248 mm x 178 mm x 115 mm
Weight	2kg / 4.4lbs	1.4kg / 3.08lbs	1.5kg / 3.3lbs
Operating Temperature*	-25°C to +55°C	-25°C to +65°C	-25°C to +65°C
Storage Temperature*	-40 to +80 °C	-40 to +80 °C	-40 to +80 °C
Humidity	95% RH at 40 °C	95% RH at 40 °C	95% RH at 40 °C
Environmental	IP 54	IP 67	IP 67
Satellite Background IP (FWD/RTN)	Up to 290kbps/256kbps	Up to 200kbps/150kbps	Up to 200kbps/150kbps
Satellite Streaming IP	32kbps, 64kbps (symmetrical)	N/A	N/A
Integrated Cellular	No	No	2G, 3G, 4G/LTE**
WiFi Access Point	802.11 b/g/n	No	No
Telephone Interface	RJ-11 POTS WLAN/LAN Connected SIP client	No	No
Data Interface	Ethernet & Wi-Fi	Ethernet	Ethernet
Input DC Power	10V to 28V (12V recommended)	12VDC (w power cable <10m) 16W 3.5A 19VDC (w power cable >10m) 16W 3.5A	12VDC (w power cable <10m) 16W 3.5A 19VDC (w power cable >10m) 16W 3.5A
Input AC Power	100 - 240 V (supplied PSU)	NA	NA
Max Power Draw	TX <10W RX <8W Idle <1.3W -	TX <16W RX <8W Idle <1W Off (Remote Switch Control) <10mW	"TX < 16 W (SAT only) TX < 6 W (CELL only) TX < 20 W (SAT & CELL)" RX < 10 W "Idle < 1.3 W (SAT Only) Idle < 3 W (SAT & CELL)" Off (Remote Switch Control) <10mW



Want to know more?



[EchoStarMobile.com](http://EchoStarMobile.com)



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**About EchoStar:** EchoStar Corporation (NASDAQ: SATS) is a premier global provider of satellite communication solutions. Headquartered in Englewood, Colo., and conducting business around the globe, EchoStar is a pioneer in secure communications technologies through its Hughes Network Systems and EchoStar Satellite Services business segments. For more information, visit [EchoStar.com](http://EchoStar.com). Follow [@EchoStar](https://twitter.com/EchoStar) on Twitter.