BGAN Test Report: Hughes 9201 Terminal (2009)

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General Information

The Hughes terminal is very simple to operate and to set up. The initial configuration straight out of the box does require a connection to a computer. However after all of the auto-login features are enabled the unit can recover from a power cycle independently and reestablish its satellite connection. For access back to a receiver connected to this unit a VPN router will be needed.

The terminal, once it has determined it's own position with an internal GPS receiver, will give you an azimuth and elevation to aim the antenna. This aiming process is also very easy and will take only a few seconds to accomplish.

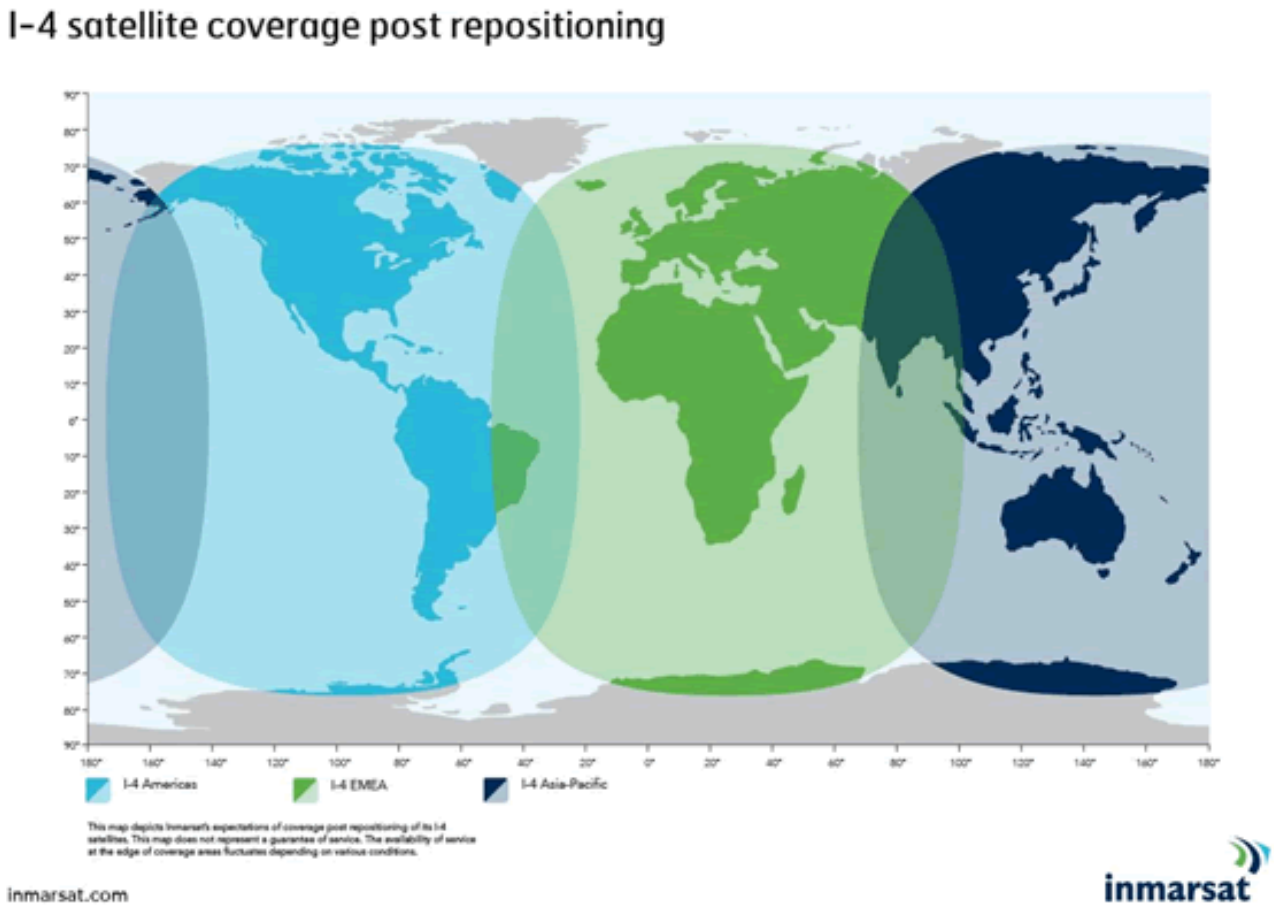
The terminal is weather rated at IP55. This rating states that it is able to resist solid particle intrusion down to the dust level and water proof up to the level of jetting water. It can operate in a temperature range of -25C to +60C. Part of the test was conducted with the unit inside of a Pelican case. This would protect the unit from any particles or water intrusion at all. The case caused very little degradation of the unit's performance.

The transmission speed was measured at: Download 340 kb/s, Upload 100 kb/s
The power consumption was measured at: Standby 4.5watts, Operating 10watts

Info from Data Sheet:

- Weight: 2.8 kg (terminal with battery)
- Dimensions: 27.5 cm x 34.5 cm x 5.0 cm
- Battery Life: Transmit: 162 megabytes, Receive: 864 megabytes, 36 hours standby time (actual performance will vary based upon a wide range of factors and actual usage)
- Humidity: 95% RH at +40˚ C
- Temperature: -25˚ C to +60˚ C operating, -25˚ C to +60˚ C storage (w/ battery)
- Water & Dust: IP-55 standard
- Wind: Operational 25 mph (40 km/h), Survival 100 mph (160 km/h)
- Ice: 25 mm non-operational

Inmarsat Coverage Map as of 3/1/09



Hughes 9201 Terminal System Photos





Back view.





Cable connections open and closed cover.



External controls and indicator lights.



As tested inside Pelican case.





In case with 18 amphr battery.

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