INSTALLATION VERIFICATION

Residential Installation

Session report

All verification criteria met

16 Jul 2026, 10:37 – 11:07 BST · Duration 30m 0s

PREPARED BY	PREPARED FOR	GENERATED
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ASSESSMENT

This installation meets all verification criteria.

Measured over a 30-minute session against typical healthy ranges for a fixed installation. Individual results below; full evidence in the sections that follow.

Criterion	Measured	Typical healthy range	Result
Obstruction Dish's own sky map, 116 h 39 m observed	`0.0% · under 1 s obstructed`	0% · no blockage sectors	✓ Pass
Latency to Starlink point of presence	`23 ms avg · 17 ms best`	≤ 40 ms · lower is better	✓ Pass
Drop rate	`0.02% avg · 5.0% peak (2 s)`	≤ 1% avg · lower is better	✓ Pass
Event log during soak	`0 outages · 100.0% uptime`	Quiet log, no repeated warnings	✓ Pass
Dish alignment	`Δ 1.3° az · Δ 0.8° el`	Actual within ~2° of intended	✓ Pass
Measured throughput 5 speed tests during the session	`287 ↓ / 48 ↑ Mbps avg`	Plan-dependent · recorded for baseline	Recorded

Ranges are typical values for a healthy fixed installation, drawn from the dish's own telemetry; they are working guidance, not Starlink service guarantees. Where obstruction observation time is short, confirm the map the following day.

This report shows only what was measured during the session; empty sections are omitted rather than padded, and no value is invented for a period that was not observed. Full method on the last page.

MEASUREMENTS

MEASURED CAPABILITY FROM SPEED TESTS

DOWNLOAD

287 Mbps

from 5 tests: 282, 192, 319, 288, 352

UPLOAD

48 Mbps

from 5 tests: 40, 37, 48, 59, 56

TEST LATENCY

20 ms

during speed tests

CONNECTION EXPERIENCE OVER THE 30-MINUTE SOAK

LATENCY

23 ms

to point of presence · best 17

DROP RATE

0.02 %

peak 5.0% for 2 s

UPTIME

100.0 %

0 outages recorded

EQUIPMENT & ENVIRONMENT

POWER

34 W

avg · peak 65 W

GPS SATELLITES

—

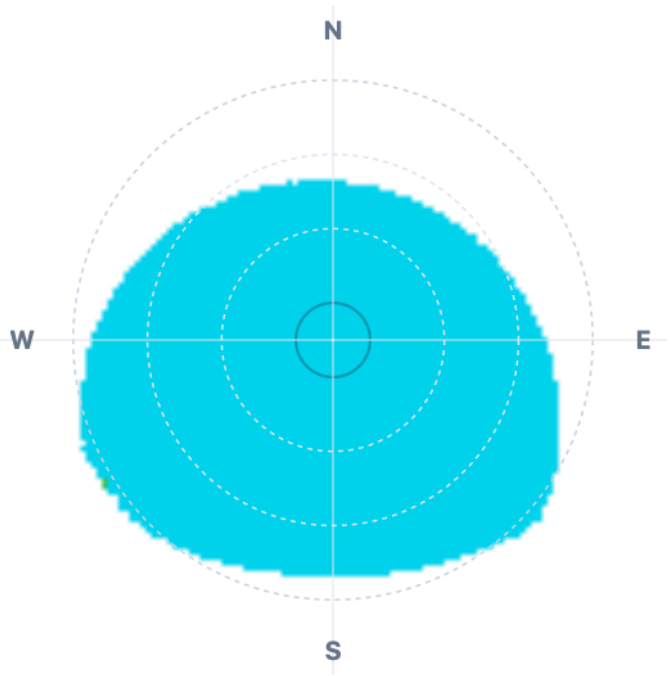
no fix · GPS unavailable

OBSTRUCTION

0.0 %

Excellent · no drops expected

OBSTRUCTION & ALIGNMENT



Field of view · cyan = clear sky as measured by the dish

0.0%

Excellent

No drops expected from obstruction

Observation time	116 h 39 m
Time obstructed	< 1 s
Sky patches measured	5,169 valid
Map coverage	5,169 clear 0 partial 0 obstructed
Signal quality (SNR)	mean 1.000 · min 0.700
SNR state	Above noise floor

The dish builds its obstruction map from the sky it actually observes, satellite by satellite. The observation time above is the dish's own measure for the current map; it can reset when the dish restarts, while the underlying map may carry longer history. A longer observation window, or confirming the map the following day, increases confidence. On a freshly installed dish, most obstructions still appear within a day.

Alignment

Measure	Actual	Intended	Δ
Boresight azimuth	-171.3°	-170.0°	1.3°
Boresight elevation	70.8°	70.0°	0.8°
Tilt angle	19.3°	—	—
Attitude state	Filter Converged · GPS unavailable		

The dish is pointing where it intends to point. A growing gap between actual and intended pointing is an early indicator of a mount or actuation problem.

A lost GPS fix does not affect the dish's alignment or the verdict: the terminal holds its attitude and timing from the satellite signals, not its GPS receiver.

DIAGNOSTICS

Checks run during the session, with timestamps. The report records only tests that were actually performed.

Ping · Ipv6.google.com

10:38:12 · 10 packets

✓ Both paths healthy. The Starlink link and the local network both look good to this target.

	This device	Via Starlink router	Δ device – router
Avg	48.6 ms	27.3 ms	+21.3 ms
Min / Max	28.6 / 103.6 ms	23.9 / 32.1 ms	–
Loss	0.0%	0.0%	0.0 pp

Two vantage points, one target: the device tests the whole path including the local network; the router tests its own path to the same target. A clean router path with a degraded device path localises a fault to the local network.

Ping · 1.1.1.1

10:41:43 · 10 packets

✓ Both paths healthy. The Starlink link and the local network both look good to this target.

	This device	Via Starlink router	Δ device – router
Avg	55.3 ms	29.6 ms	+25.7 ms
Min / Max	24.2 / 118.1 ms	25.8 / 51.2 ms	–
Loss	0.0%	0.0%	0.0 pp

Two vantage points, one target: the device tests the whole path including the local network; the router tests its own path to the same target. A clean router path with a degraded device path localises a fault to the local network.

Traceroute · Ipv6.google.com — 17 hops · 10:38:53

DNS · cloudflare.com · A via system default — 2 records · 88 ms · 10:40:21

DNS · ipv6.google.com · A via system default — 1 record · 39 ms · 10:40:31

Traceroute · 1.1.1.1 — 8 hops · 10:40:44

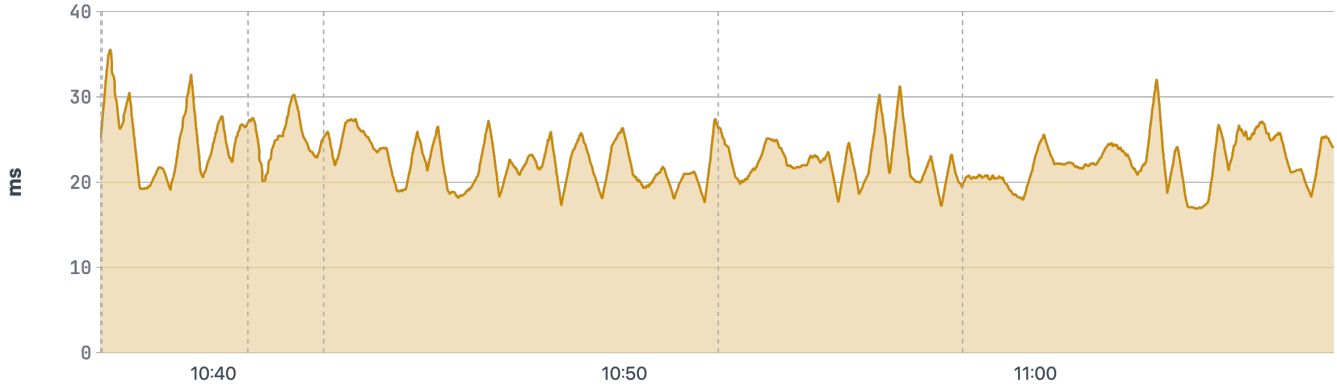
REGIONAL LATENCY

REGION	AVG	BEST	REACHABLE
Europe	78 ms	30 ms	6
US East	216 ms	145 ms	3
US West	222 ms	179 ms	3
Asia-Pacific	299 ms	222 ms	10
Other	261 ms	117 ms	6

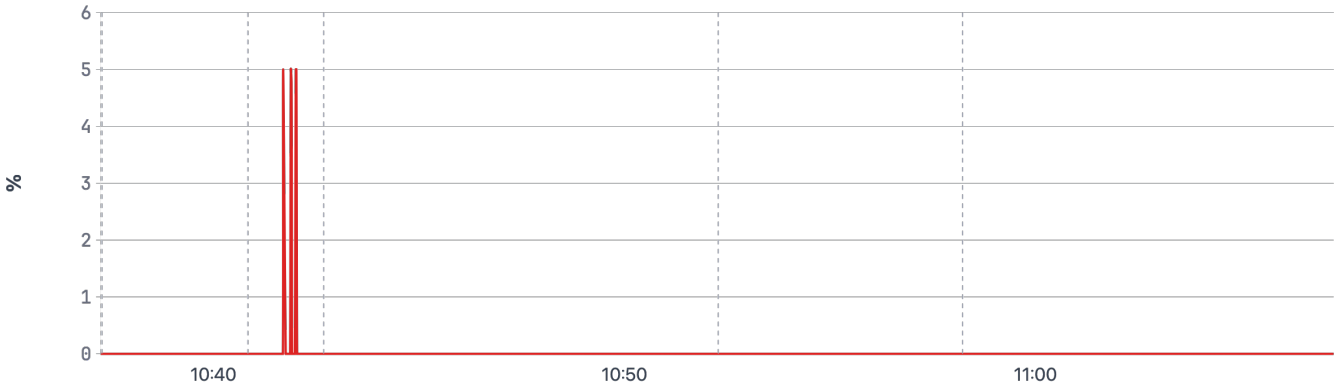
28 targets reachable · Best: 30ms (Fortnite) · Starlink: 155ms

PERFORMANCE CHARTS

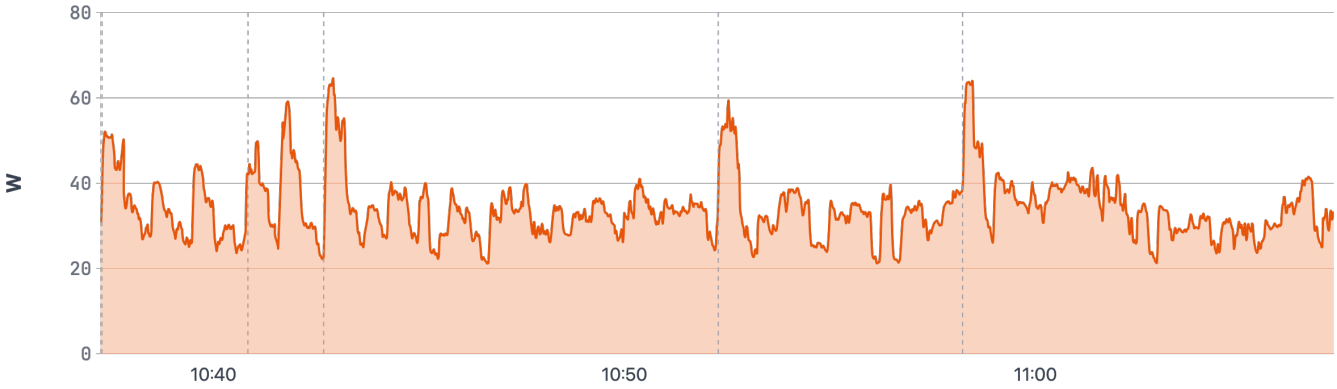
Latency



Packet Loss



Power Consumption



EQUIPMENT & ENVIRONMENT

Dish

SERIAL

ut010[redacted]

Hardware	rev3_proto2
Firmware	2026.06.24
Uptime	4d 20h
Boot count	115
Country	GB
Service class	Consumer
Ethernet	1000 Mbps

Router

SERIAL

Router-0[redacted]

Hardware	v2
Firmware	2026.07.01
Wi-Fi network	[redacted]
WAN IP	100.89.41.•••
Uptime	6h 52m
Connected clients	6

Power and signal

Average draw	34 W
Peak draw	65 W
Satellites in view	Not reported
Satellite range	Not reported

EVENTS & MARKERS

TIME	TYPE	DETAILS	LOCATION
10:37:14	Session Start	0 Mbps, 25ms	–
10:37:16	Speed Test	↓282 ↑40 Mbps 19ms	–
10:40:49	Speed Test	↓192 ↑37 Mbps 20ms	–
10:42:40	Speed Test	↓319 ↑48 Mbps 22ms	–
10:52:16	Speed Test	↓288 ↑59 Mbps 20ms	–
10:58:13	Speed Test	↓352 ↑56 Mbps 20ms	–

SPEED TEST RESULTS

#	TIME	DOWNLOAD	UPLOAD	LATENCY
1	10:37:16	282.0 Mbps	40.0 Mbps	19 ms
2	10:40:49	192.0 Mbps	37.0 Mbps	20 ms
3	10:42:40	319.0 Mbps	48.0 Mbps	22 ms
4	10:52:16	288.0 Mbps	59.0 Mbps	20 ms
5	10:58:13	352.0 Mbps	56.0 Mbps	20 ms

AVG DOWNLOAD

287 Mbps

Speed test average

AVG UPLOAD

48 Mbps

Speed test average

AVG LATENCY

20 ms

Speed test average

METHODOLOGY

Source. All telemetry is read directly from the Starlink terminal over the local network, at the sampling resolution recorded for this session, using the same interface the official app uses. No cloud service sits in the measurement path.

Latency is the dish's own measurement to the Starlink point of presence. Pings to internet destinations run higher and vary with the target; the diagnostics section records those separately.

Drop rate is the dish's reported packet loss per one-second sample. Brief spikes at satellite switches are normal; the assessment considers the pattern, not single samples.

Obstruction is the dish's accumulated sky map. Confidence grows with observation time, which is stated wherever the figure is used.

Speed tests measure the connection under deliberate load at the moment of the test. Idle background throughput is excluded from headline figures because it reflects usage, not capability.

Dual-path ping runs the same test from the technician's device and through the Starlink router's own interface simultaneously, to separate local-network faults from link faults.

Honesty rules. The report includes only what was measured during the session window; empty sections are omitted rather than padded; and no value is ever invented for a period that was not observed.

Nexus Telemetry Pro · nexustelemetry.com

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