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Starlink Standard Actuated Dish, Gen 2 (REV3)

MPN: UTA-212

Description

Starlink's Generation 2 User Terminal, known as the Standard Actuated Dish, or "Rectangular Dishy" is a satellite terminal provided by Starlink as the main user equipment between November 2021 and late 2023. The unit is referred to as the Generation 2 (Rev3) UT. Generation 1 (Rev1 & Rev2) refer to the "Round Dishy". Depending on when the UT was manufactured it may have a sub-version of rev3_proto0, rev3_proto1, or rev3_proto2.

The antenna unit UTA-212 connects to its corresponding router UTR-211. Specification here refers to the UTA-212 only.

In general, the Starlink Gen2 User Terminal is a satellite transceiver which uses digital beamformers and an Electronic Steerable Antenna to track and maintain connectivity with LEO satellites as they move overhead. Gen2 uses motors to adjust azimuth and elevation to position the phased array orthogonally (ideally 90°) to the direction of the satellite and therefore maximising the effective antenna ...

Read More

Information on Starlink UTs is difficult to piece together. If you notice an error please reach out to our team.

Network Interfaces

Wireless Interfaces

Topology:	Multipoint Terminal/Subscriber	Max. Clients:	1
Max. Throughput:	720 Mb/s	Latency:	30 ms
Encryption:	AES-256	Aggregate Channel Width:	240 MHz

Starlink Transceiver

Starlink

Starlink, initiated by US company SpaceX in January 2015, is a satellite network project aimed at providing satellite internet connectivity. The project's primary objective is to deliver broadband services globally, particularly to underserviced areas of the planet. Starlink's constellation comprises thousands of mass-produced small satellites, orbiting in low Earth orbit (LEO), working in ...

Transmit Power:	34.4 dBm	Receive Sensitivity:	-89 dBm

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
X Band	Receive	10700 MHz	12700 MHz	1x1 SISO	240 MHz	64QAM	720 Mb/s
Ku Band	Transmit	14000 MHz	14500 MHz	1x1 SISO	60 MHz	64QAM	180 Mb/s

Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input
SPX 20-Pin	1	LAN, to UTR-211 Router	100BASE-T, 1000BASE-T	Starlink PoE

Antenna Specifications

Electronic Steerable Antenna

Start Frequency:	10700 MHz	Polarisation:	Left Hand Circular (LHCP), Right Hand Circular (RHCP)
Stop Frequency:	14500 MHz	Input Impedance:	50 Ω

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation
10700 MHz	12700 MHz	30.4 dBi	3.5°	3.5°
14000 MHz	14500 MHz	31.8 dBi	2.8°	2.8°

Physical Specification

Subtype:	Satellite Terminal	Dimensions:	513 × 303 × 544 mm
Min. Operating Temperature:	-30 °C	Weight:	2.9 kg
Max. Operating Temperature:	50 °C	Materials:	Aluminium
Ingress Protection:	IP54	Mounting:	Starlink G3 34mm OD Spigot

Power Specifications

Max. Consumption:	96 W	Typical Consumption:	40 W

Drawing

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