

# Starlink Circular Actuated Dish, Gen 1

MPN: UTA-211

## Description

Starlink's Generation 1 User Terminal, known as the Circular Dish, or "Round Dishy" is a satellite terminal provided by Starlink as the main user equipment between April 2021 and early 2022. Within G1 "Round Dishy" there are two revisions, Rev1 and Rev2 which can be differentiated between visually by the Rev1 having a black mounting tube and Rev2 having a grey mounting tube. Depending on when the UT was manufactured it may have a sub-version of rev2\_proto2, rev2\_proto3, or rev2\_proto4.

The antenna unit UTA-211 connects to its corresponding router UTR-201. Specification here refers to the UTA-211 only.

The Starlink G1 User Terminal is a satellite transceiver which uses a digital beamformer, 16 front-end modules, and 1280-element phased array antenna to track and maintain connectivity with LEO satellites as they move overhead. G2 uses motors to adjust azimuth and elevation to position the phased array to an optimal alignment.

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## 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 ...

# Network Interfaces

## Wireless Interfaces

Topology:	Multipoint Terminal/Subscriber	Max. Clients:	1
Encryption:	AES-256	Latency:	40 ms

## Electronically Steerable Antenna

Transmit Power:	33.87 dBm	Receive Sensitivity:	-89 dBm				
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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-201 Router	100BASE-T, 1000BASE-T	Starlink PoE

## Antenna Specifications

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

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation
10700 MHz	12700 MHz	33.2 dBi	3.5°	3.5°
14000 MHz	14500 MHz	34.6 dBi	2.8°	2.8°

## Physical Specification

Subtype:	Satellite Terminal	Dimensions:	589 x 589 x 396 mm
Min. Operating Temperature:	-30 °C	Weight:	7.3 kg
Max. Operating Temperature:	50 °C	Materials:	Aluminium
Ingress Protection:	IP54	Mounting:	Starlink G1/G2 36mm OD Spigot

## Power Specifications

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