Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

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.

Starlink UTs ...

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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
Encryption
AES-256
Max. Clients
1
Latency
40 ms

Electronically Steerable Antenna

Transmit Power
33.87 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

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
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

Stop Frequency

14500 MHz

Polarisation

Left Hand Circular (LHCP), Right Hand Circular (RHCP)

Input Impedance

50 Ω

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

Min. Operating Temperature

-30 °C

Max. Operating Temperature

50 °C

Ingress Protection

IP54

Dimensions

589 × 589 × 396 mm

Weight

7.3 kg

Materials

Aluminium

Mounting
Starlink G1/G2 36mm OD Spigot
Power Specifications

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