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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 underserved 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 |
| 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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