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## **Starlink Mini Dish, (Rev1)**

MPN  
UTA-231

### **Description**

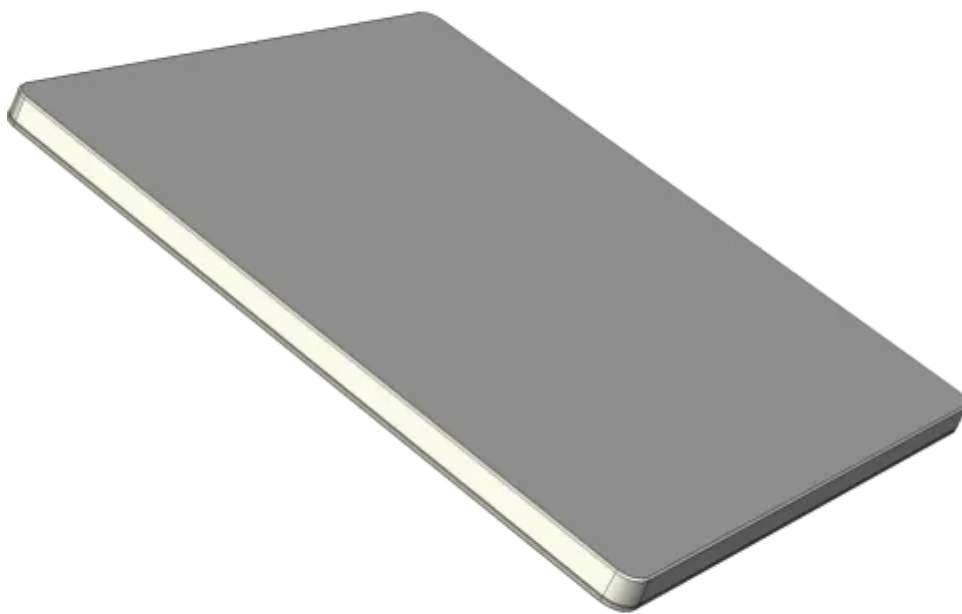
Starlink's Mini User Terminal, known simply as "Starlink Mini" is an all-in-one portable satellite terminal and WiFi, designed to fit in a backpack or small carry case for easy transport.

Like its predecessors, Starlink Mini 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. Mini has a kick-stand, requiring the user to rotate the unit to the optimal position guided by the Starlink app. The unit is highly weather resistant, achieving an IP67 rating when using the supplied SPX connector (standard RJ45 ethernet reduces the weather rating).

A major advantage of Starlink Mini is the significantly reduced power consumption, averaging 25 to 40 W, along with its conventional DC power connector making connection from solar or battery simple. Being physically smaller the unit has a smaller phased array resulting in lower data ...

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Starlink UTs communicate using the X and Ku bands, receiving a 240 MHz channel between 10.7 and 12.7 GHz, and transmitting a 60 MHz channel back to the satellite between 14.0 and 14.5 GHz. While the UT should be theoretically capable of up to 720 Mbps downlink (64QAM), it realistically achieves data rates to a maximum of about 100 Mbps due to the smaller antenna used in the Mini.





[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](#)

Max. Throughput

720 Mb/s

Encryption

[AES-256](#)

Max. Clients

1

Latency

30 ms

Aggregate Channel Width

240 MHz

Beamforming

[3DBF](#)

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

WiFi Module

WiFi Chipset

Mediatek MT7629

No. Radios

2

Max. Throughput

1300 Mb/s

Max. Clients

128

No. Antennas

6

WiFi Radios

Radio Name (Optional)	WiFi Standard	Frequency Bands	MIMO	Transmit Power	Beamforming
Radio 1	<a href="#">802.11n</a>	<a href="#">2.4 GHz</a>	<a href="#">3x3 MIMO</a>	30 dBm	<a href="#">2DBF</a>
Radio 2	<a href="#">802.11ac Wave 1</a>	<a href="#">5 GHz</a>	<a href="#">3x3 MIMO</a>	30 dBm	<a href="#">2DBF</a>

Ethernet Interfaces

Interface	Quantity	Function	Signalling
<a href="#">RJ45 Copper</a>	1	LAN	<a href="#">100BASE-T</a> , <a href="#">1000BASE-T</a>

## Antenna Specifications

Start Frequency

10700 MHz

Stop Frequency

14500 MHz

Polarisation

[Left Hand Circular \(LHCP\)](#), [Right Hand Circular \(RHCP\)](#)

Input Impedance

50 Ω

## Physical Specification

Subtype

[Satellite Terminal](#)

Min. Operating Temperature

-30 °C

Max. Operating Temperature

50 °C

Ingress Protection

[IP67](#)

Dimensions

259 × 38.5 × 298.5 mm

Weight

1.16 kg

Mounting

Starlink Mini Receptacle

Power Specifications

Max. Consumption

60 W

Power Options

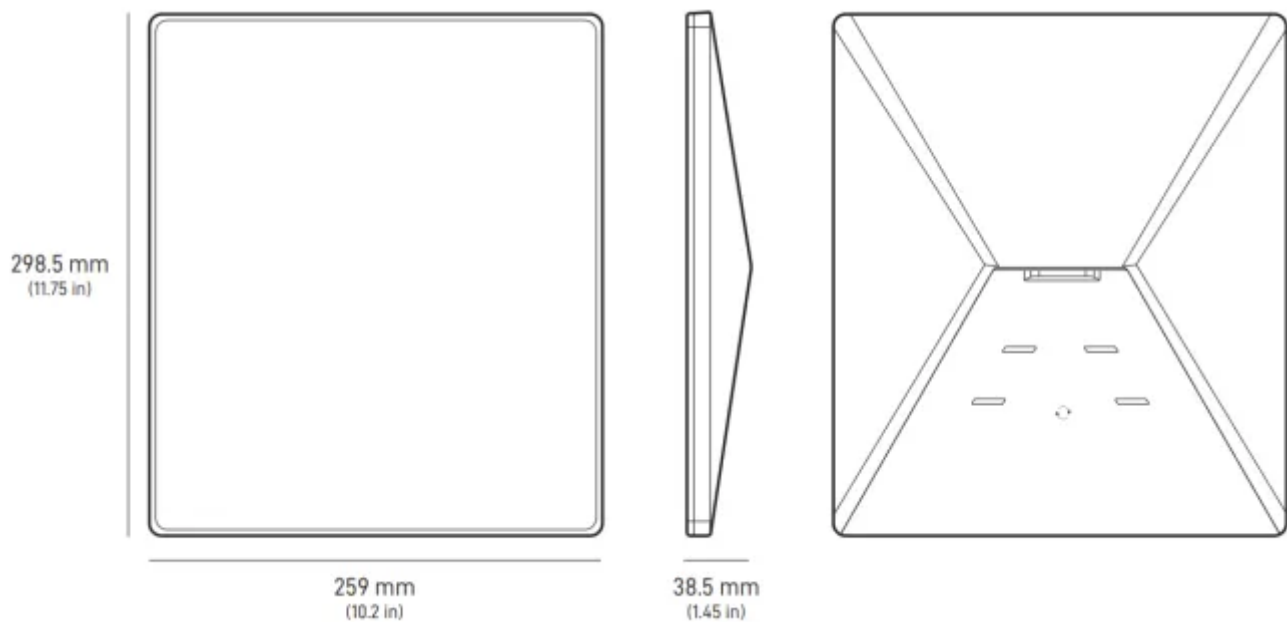
DC Power Input

Typical Consumption

27 W

**Power Interface**

Power Connector	Min. Input Voltage	Max. Input Voltage	Voltage Type
DC Coaxial, Type A, Female 5.5 x 2.1 mm	12 V	48 V	DC
Drawing			



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