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Starlink Standard Flat Dish, Gen 3 (Rev4)

MPN UTA-213

Description

Starlink's Generation 3 (REV4) User Terminal, known as the Standard Flat Dish is a satellite terminal provided by Starlink as the main user equipment starting April 2024. The unit is referred to as the Generation 3 UT. Generations 1 refers to the "Round Dishy", Generation 2 refers to "Rectangular Dishy". The current subversion is rev4_prod1.

The Starlink G3 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. As the G3 no longer has motors to position the phased array orthogonally (ideally 90°) to the direction of the satellite, it has a kick-stand so that the user can position dishy optimally. G4 has a higher weather resistance rating, now with IP67 courtesy of a more complex assembly using automotive-glass sealant.

G3 demonstrates higher downlink and uplink data speeds and marginally reduced latencies ...

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Starlink UTs communicate using the Ku-Band, receiving a 240 MHz channel between 10.7 and 12.7 GHz, and transmiting a 60 MHz channel back to the satellite between 14.0 and 14.5 GHz. While the UT is theoretically capable of up to 720 Mbps downlink (64QAM), it realistically achieves data rates to a maximum of about 450 Mbps.





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 massproduced 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 **Transmit Power** 34.4 dBm **Receive Sensitivity** -89 dBm

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	мімо	Channel Width	Modulatio	Max. n Data Rate
X Band	Receive	10700 MHz	12700 MHz	<u>1x1</u> <u>SISO</u>	240 MHz	64QAM	720 Mb/s
<u>Ku Band</u>	Transmit	14000 MHz	14500 MHz	<u>1x1</u> <u>SISO</u>	60 MHz	<u>64QAM</u>	180 Mb/s
Ethernet Interfaces							
Interfac	e Quanti	ity Fu	nction		Signallir	ng Pol	E Input
<u>RJ45</u>	1	WAN, to l	JTR-XXX	<u>100B</u>	ASE-T,	<u>Star</u>	<u>link</u>
~		– –		1 0 0 0 0			

1000BASE-T

PoE

Antenna Specifications

Copper

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 30.4 dBi 3.5° 3.5° 14000 MHz 14500 MHz 31.8 dBi 2.8° 2.8°

Router

Physical Specification

Subtype <u>Satellite Terminal</u> Min. Operating Temperature -30 °C Max. Operating Temperature 60 °C Ingress Protection <u>IP67</u> Dimensions 173 × 93 × 35.75 mm



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