Helium Hotspot PRO Antenna Upgrade Kit, 8dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector

Antenna Kits Technical Data Sheet

PEANKIT1039

Features

- 824 MHz to 876 MHz
- Increased Proof-of-Coverage
- N-Male to RP-SMA Male Low loss CA-400 series coax cable (LMR-400 equivalent)
- Lightweight fiberglass radome
- Integral lightning surge protector with multi-strike capability and replaceable gas tube
- Heavy-duty steel mounting bracket
- COAX-SEAL® Hand Moldable Weatherproofing Tape

Applications

- Helium Network (HNT) Mining
- 800 MHz EU ISM band
- EU868, IN865, RU864
- M2M, LPWAN, LoRa, LoRaWAN, IoT, LongFi
- Industrial & Environmental Monitoring
- Smart Metering Applications
- Inventory Tracking
- Non Line of Sight (NLOS)

Description

The PEANKIT1039 EU Helium Hotspot PRO Antenna Upgrade Kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1039 provides your LongFi radio with the proper components to get the most out of your hotspot with optimized range, increased witnessing and Proof-of-Coverage over OEM components.

The PEANKIT1039 achieves enhanced performance by utilizing Pasternack's 800 MHz PRO-Series high-performance Omni-directional antennas designed for the 800 MHz European ISM band. These LoRa, LoRaWAN antennas feature a rugged 1.58" diameter UV-stable fiberglass radome for durability, aesthetics and long service life. The PEANKIT1039 comes with a 8 dBi Omni Antenna that operates from 824 MHz to 876 MHz frequency range.

Combined with our Low Loss 400 series cable with integrated Lightning Protector, the 400 cable features equal performance and mechanical characteristics to cables from CommScope®, Times Microwave Systems®, Belden® and Andrew®. This 20 ft Low Loss cable comes terminated with an N Male in-line gas discharge tube suppressor, to the antenna, and an RP-SMA Male connector compatible with the leading Hotspot miners on the market. The PEANKIT1039 from Pasternack brings industry proven components direct to the Helium enthusiast, ship worldwide the same day as with our other available RF parts.

Configuration

Design	Omni
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	400 Series
Cable Length	240 in [609.6 cm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	Lightning Protector

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	824		876	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Helium Hotspot PRO Antenna Upgrade Kit, 8dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector PEANKIT1039

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PASTERNACK
an INFINITE brand

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Gain	8	dBi
Horizontal (Azimuth) Beam Width	360	Degrees
Vertical (Elevation) Beam Width	12	Degrees
Input Power	100	Watts

Cable Assembly
Cable Type	400 Series
Impedance	50 Ohms
Connector 1	N Male
Connector 2	SMA Plug Reverse Polarity

Mechanical Specifications
Radome Material	Fiberglass

Size
Radome Diameter	1.5 in [38.1 mm]
Overall Length	70 in [177.8 cm]
Width	10 in [254 mm]
Height	4 in [101.6 mm]
Mounting Mast Diameter	1.2 to 2 in [30.48 to 50.80 mm]
Weight	8 lbs [3.63 kg]

Environmental Specifications
Temperature
Operating Range	-40 to +60 deg C
Wind Loading	130 MPH [209.21 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

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Helium Hotspot PRO Antenna Upgrade Kit, 8dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/helium-hotspot-pro-antenna-upgrade-kit-8dbi-800mhz-omni-n-male-rp-sma-plug-20ft-low-loss-400-cable-lightning-protector-lcankit1039-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PEANKIT1039 CAD Drawing

Helium Hotspot PRO Antenna Upgrade Kit, 8dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	6/27/2022	K. HIETPAS

N-FEMALE CONNECTOR

COAX-SEAL
Hand Moldable Plastic
Seals Connectors from Moisture and Corrosion

Ø 1.7 [43]

7.1 [181]

63.5 [1613]

20 FEET

TYPE N MALE
STRAIGHT CRIMP
LIGHTNING PROTECTOR
50 OHM CONNECTOR

GAS TUBE

GROUND LUG

400 SERIES, 50 OHM LOW-LOSS COAXIAL CABLE
JACKET: POLYETHYLENE, BLACK; NOM. DIA: .40" [10.16]
OPERATING TEMPERATURE RANGE: -40°C TO +85°C.
(SEE CA-400 FOR REF.)

2X SHRINK TUBE, BLACK

SMA PLUG
REVERSE POLARITY
50 OHM CRIMP
CONNECTOR

T-Rev.D