



Helium Hotspot Antenna Upgrade Kit, 6dBi
800MHz Omni w/ N Male to RP-SMA Plug, 20ft
Low Loss 400 Cable and Lightning Protector

Antenna Kits Technical Data Sheet

PEANKIT1031

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 PEANKIT1031 EU Helium Hotspot Antenna Upgrade Kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1031 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 PEANKIT1031 achieves enhanced performance by utilizing Pasternack’s 800 MHz high-performance Omni-directional antennas designed for the 800 MHz European ISM band. These LoRa, LoRaWAN antennas feature a rugged 1.3” diameter UV-stable fiberglass radome for durability, aesthetics and long service life. The PEANKIT1031 comes with a 6 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 PEANKIT1031 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 Antenna Upgrade Kit, 6dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector PEANKIT1031](#)



Helium Hotspot Antenna Upgrade Kit, 6dBi
800MHz Omni w/ N Male to RP-SMA Plug, 20ft
Low Loss 400 Cable and Lightning Protector

Antenna Kits Technical Data Sheet

PEANKIT1031

Gain	6	dBi
Horizontal (Azimuth) Beam Width	360	Degrees
Vertical (Elevation) Beam Width	30	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	1.3 in [33.02 mm]
Overall Length	70 in [177.8 cm]
Width	10 in [254 mm]
Height	4 in [101.6 mm]
Weight	8 lbs [3.63 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Loading	108 MPH [173.81 KPH]

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Helium Hotspot Antenna Upgrade Kit, 6dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector PEANKIT1031](#)

Helium Hotspot Antenna Upgrade Kit, 6dBi
800MHz Omni w/ N Male to RP-SMA Plug, 20ft
Low Loss 400 Cable and Lightning Protector



Antenna Kits Technical Data Sheet

PEANKIT1031

Helium Hotspot Antenna Upgrade Kit, 6dBi 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, micro-wave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Helium Hotspot Antenna Upgrade Kit, 6dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector PEANKIT1031](https://www.pasternack.com/helium-hotspot-antenna-upgrade-kit-8dbi-800mhz-omni-n-male-rp-sma-plug-20ft-low-loss-400-cable-lightning-protector-lcankit1031-p.aspx)

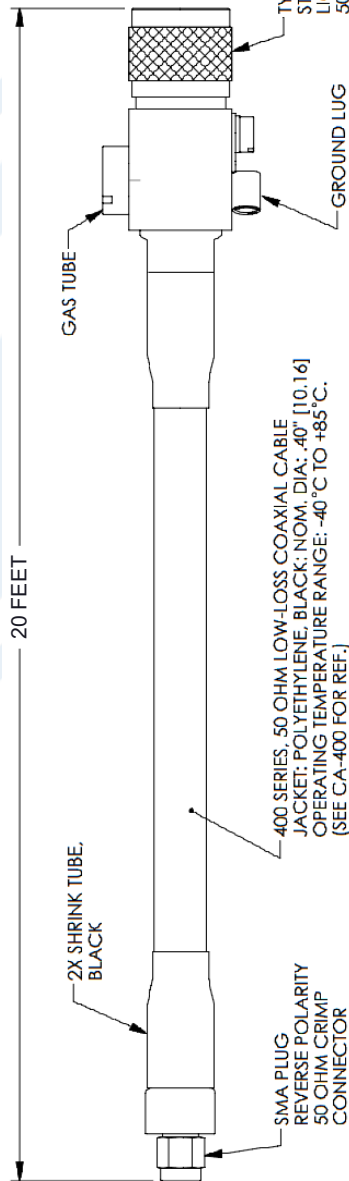
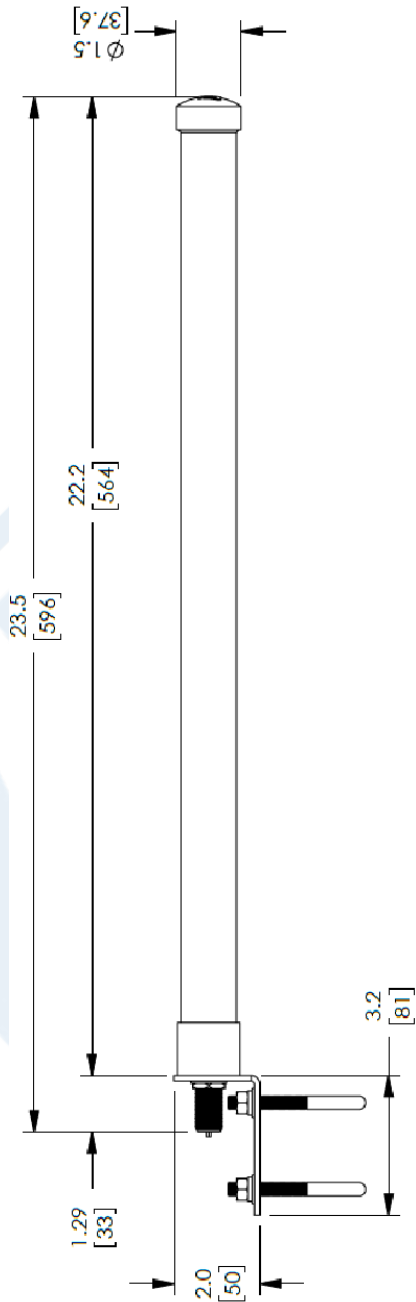
URL: <https://www.pasternack.com/helium-hotspot-antenna-upgrade-kit-8dbi-800mhz-omni-n-male-rp-sma-plug-20ft-low-loss-400-cable-lightning-protector-lcankit1031-p.aspx>

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.

PEANKIT1031 CAD Drawing

Helium Hotspot Antenna Upgrade Kit, 6dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector

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



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.)

N TYPE FEMALE
 BULKHEAD CONNECTOR
 WITH WASHER AND HEX NUT



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:	X = ±.2 [5.08]	FRACTIONS
	.XX = +.02 [.51]	±.132
	.XXX = +.005 [.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

PE PASTERNAK
 an INFINITO brand

Pasternack Enterprises, Inc.
 P.O. Box 16759, Irvine, CA 92623.
 Phone: 1.949.261.1920 | 1.866.727.8376
 Fax: 1.949.261.7451
 Website: www.pasternack.com
 E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

REV	A
ITEM NO	PEANKIT1031
DRAWN BY	K.DANG
CAGE CODE	53919