

Antenna Upgrade PRO Kit for Helium Hotspot , 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector

The FMANKIT1018 Helium Hotspot PRO Antenna Upgrade Kit from Fairview Microwave was designed with the serious Helium HNT Miner in mind. FMANKIT1018 provides your LongFi radio with the proper components to get the most out of your hotspot with optimized range and increased Proof-of-Coverage over OEM components. The FMANKIT1018 achieves enhanced performance by utilizing Fairview Microwave's 900 MHz PRO-Series high-performance Omni-directional antennas designed for the 900 MHz ISM band. These LoRa, LoRaWAN antennas feature a rugged 1.58" diameter UV-stable fiberglass radome for durability, aesthetics and long service life. The FMANKIT1018 comes with a 8 dBi Omni Antenna that operates from 900 MHz to 928 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 10 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 FMANKIT1018 from Fairview Microwave 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	120 in [304.8 cm]
Connector Type	N Female
Lightning Protection	Lightning Protector

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	900		928	MHz
Input VSWR		1.5:1	1.5:1	
Impedance		50		Ohms
Gain		8		dBi
Horizontal Beam Width		360		Degrees
Vertical 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
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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]



Features:

- 900 MHz to 928 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
- 900 MHz ISM band
- US915, AU915, AS923, KR920
- M2M, LPWAN, LoRA, LoRaWAN, IoT, LongFi
- Industrial & Environmental Monitoring
- Smart Metering Applications
- Inventory Tracking
- Non Line of Sight (NLOS)

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Weight 9 lbs [4.08 kg]

Environmental Specifications

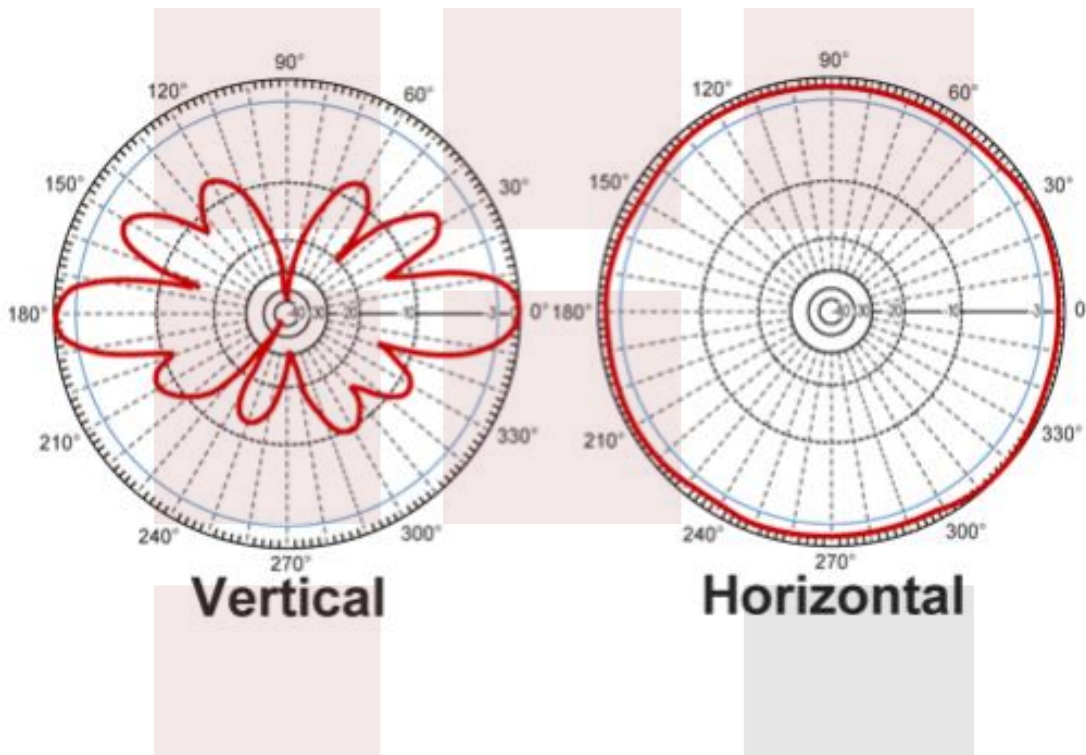
Temperature

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:



Antenna Upgrade PRO Kit for Helium Hotspot , 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Antenna Upgrade PRO Kit for Helium Hotspot , 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector FMANKIT1018](#)

URL: <https://www.fairviewmicrowave.com/pro-antenna-kit-8dbi-900mhz-omni-w-n-male-to-rp-sma-male-10ft-low-loss-400-cable-and-lightning-protector-FMANKIT1018-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/6/2022	K. HIETPAS

Dimensions:
 Total length: 63.5 [1613]
 Connector offset: 7.1 [181]
 Connector diameter: $\varnothing 1.7 [43]$

10 FEET Cable Assembly Details:
 - SMA PLUG REVERSE POLARITY 50 OHM CRIMP CONNECTOR
 - 2X SHRINK TUBE, BLACK
 - 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.]
 - GAS TUBE
 - GROUND LUG
 - TYPE N MALE STRAIGHT CRIMP LIGHTNING PROTECTOR 50 OHM CONNECTOR

COAX-SEAL Product:
 Hand Moldable Plastic COAX-SEAL
 Seals Connectors from Moisture and Corrosion
 Provides years of protection
 Hand moldable - stays flexible at extreme temperatures
 Forms easily to odd shaped connectors
 Non-conductive
 Non-contaminating
 Fast and easy seal for waveguide, radio and satellite antennas

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<p>Fairview Microwave an INFINIT[®] brand</p> <p>TITLE</p> <p>Antenna Upgrade PRO Kit for Helium Hotspot , 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector</p>	<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="font-size: small;"> <tr> <td>.X = ±.2 [5.08]</td> <td>FRACTIONS ± 1/32</td> <td>L ≤ 12 [305] = +1 [25] / -0</td> </tr> <tr> <td>.XX = ±.02 [.51]</td> <td>ANGLES ± 1°</td> <td>12 [305] < L ≤ 60 [1524] = +2 [51] / -0</td> </tr> <tr> <td>.XXX = ±.005 [.13]</td> <td></td> <td>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0</td> </tr> <tr> <td></td> <td></td> <td>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0</td> </tr> <tr> <td></td> <td></td> <td>300 [7620] < L = +5%L / -0</td> </tr> </table>	.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	.XX = ±.02 [.51]	ANGLES ± 1°	12 [305] < L ≤ 60 [1524] = +2 [51] / -0	.XXX = ±.005 [.13]		60 [1524] < L ≤ 120 [3048] = +4 [102] / -0			120 [3048] < L ≤ 300 [7620] = +6 [152] / -0			300 [7620] < L = +5%L / -0	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		ITEM NO. FMANKIT1018															
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	REV A														

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