

Antenna Upgrade Kit for Helium Hotspot , 3dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector

The FMANKIT1002 Helium Hotspot Antenna Upgrade kit from Fairview Microwave was designed with the serious Helium HNT Miner in mind. FMANKIT1002 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 FMANKIT1002 achieves enhanced performance by utilizing Fairview Microwave's 900 MHz lightweight, low-profile, high-performance Omnidirectional antennas designed for the 900 MHz ISM band. These LoRa, LoRaWAN antennas feature all-weather UV-stable fiberglass radome for durability and aesthetics. The FMANKIT1002 comes with a 3 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 FMANKIT1002 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
Band Type
Radiation Pattern
Polarization
Cable Type
Cable Length
Connector Type
Lightning Protection

Omni Single Omni Directional Vertical 400 Series 120 in [304.8 cm] N Female Lightning Protector

Electrical Specifications

| Description | Min | Тур | Max | Units |
|-----------------------|-----|-----------------|-----|---------|
| Frequency Range | 900 | | 928 | MHz |
| Input VSWR | | 1.6:1 | | |
| Impedance | | 50 | | Ohms |
| Gain | | 3 | | dBi |
| Horizontal Beam Width | | Omnidirectional | | |
| Vertical Beam Width | | 44 | | Degrees |
| Input Power | | | 50 | 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

 Overall Length
 21 in [533.4 mm]

 Width
 10 in [254 mm]

 Height
 3 in [76.2 mm]

 Mounting Mast Diameter
 2 in [50.80 mm]

 Weight
 4 lbs [1.81 kg]

FMANKIT1002 DATA SHEET



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
- Extruded aluminum 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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Environmental Specifications Temperature

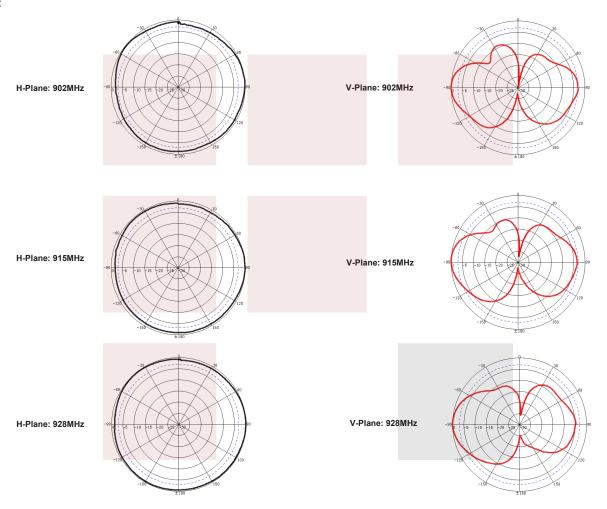
Operating Range Wind Loading

-40 to +60 deg C 130 MPH [209.21 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



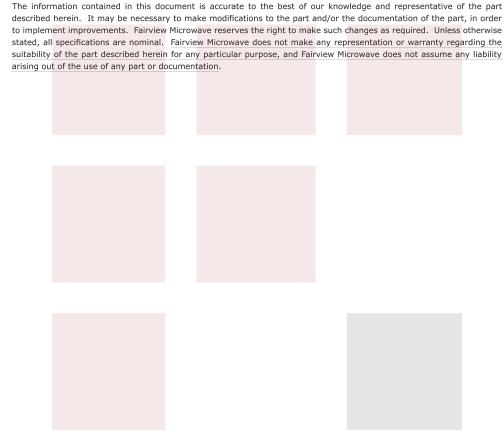




Antenna Upgrade Kit for Helium Hotspot , 3dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: Antenna Upgrade Kit for Helium Hotspot , 3dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector FMANKIT1002

URL: https://www.fairviewmicrowave.com/antenna-kit-3dbi-900mhz-omni-w-n-male-to-rp-sma-male-10ft-low-loss-400-cable-and-lightning-protector-FMANKIT1002-p.aspx



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