

Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable

The FMANKIT1020 Helium Hotspot HD Antenna Upgrade Kit from Fairview Microwave was designed with the serious Helium HNT Miner in mind. FMANKIT1020 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 FMANKIT1020 achieves enhanced performance by utilizing Fairview Microwave's 900 MHz Heavy Duty high-performance Flat Panel antenna designed for the 900 MHz ISM band. This LoRa, LoRaWAN antenna features a heavy-duty UV-stable plastic radome for all weather operation. The FMANKIT1020 comes with a 9 dBi Flat Panel Antenna that operates from 824 MHz to 960 MHz frequency range. Combined with our Low Loss 400 series cable, the 400 cable features equal performance and mechanical characteristics to cables from CommScope®, Times Microwave Systems®, Belden® and Andrew®. This 6 ft Low Loss cable comes terminated with an N Male connector, to the antenna, and an RP-SMA Male connector compatible with the leading Hotspot miners on the market. The FMANKIT1020 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 | Panel |
| Application Band | RFID, SCADA, LPWAN, ISM, Cellular |
| Band Type | Wide |
| Radiation Pattern | Directional |
| Polarization | Vertical or Horizontal |
| Cable Type | 400 Series |
| Cable Length | 72 in [182.88 cm] |
| Connector Type | N Female |

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------------|-----|-------|-------|---------|
| Frequency Range | 824 | | 960 | MHz |
| Input VSWR | | 1.8:1 | 1.8:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 9 | | dBi |
| Horizontal Beam Width | | 60 | | Degrees |
| Vertical Beam Width | | 70 | | Degrees |
| Input Power | | | 10 | Watts |

Cable Assembly

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

Specifications by Band

| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|-------------|--------|--------|--------|--------|--------|-------|
| Gain | 9 | | | | | dBi |
| Max Power | 10 | | | | | Watts |

Mechanical Specifications



Features:

- 824 MHz to 960 MHz
- Increased Proof-of-Coverage
- Heavy duty all weather plastic radome
- N-Male to RP-SMA Male Low loss CA-400 series coax cable (LMR-400 equivalent)
- Can be installed for vertical or horizontal polarization
- Direct ground protection
- Includes tilt and swivel mast mount
- COAX-SEAL® Hand Moldable Weatherproofing Tape

Applications:

- Helium Network (HNT) Mining
- 900 MHz ISM band
- US915, EU868, 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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Radome Material

UV-inhibited Polymer

Size

| | |
|----------------|--------------------|
| Overall Length | 15 in [381 mm] |
| Width | 15 in [381 mm] |
| Height | 4 in [101.6 mm] |
| Weight | 5.35 lbs [2.43 kg] |

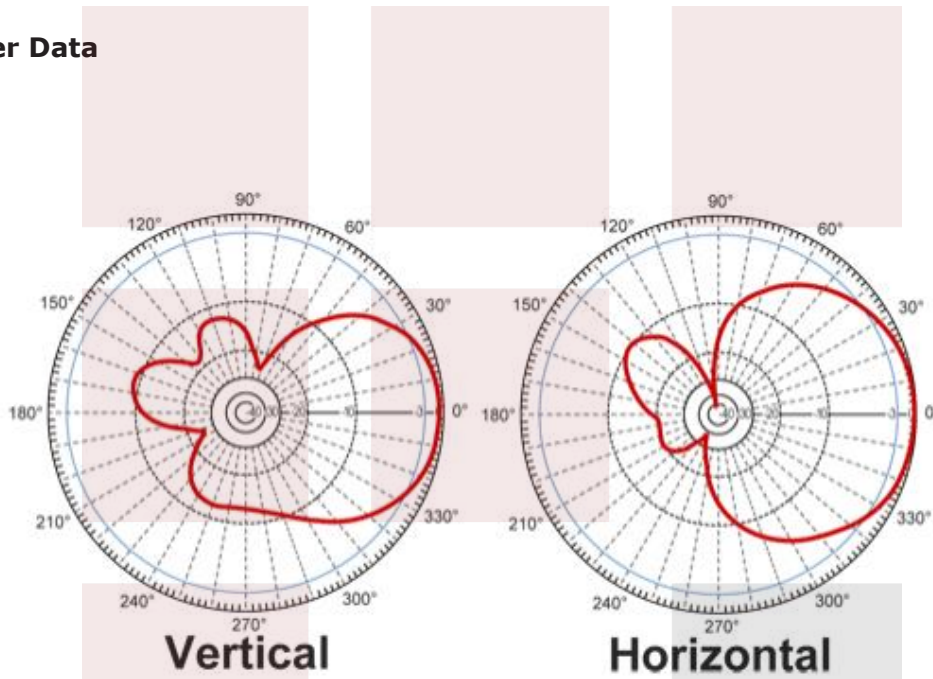
Environmental Specifications

| | |
|--------------|----------------------|
| Wind Loading | 130 MPH [209.21 KPH] |
|--------------|----------------------|

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

Plotted and Other Data

Notes:

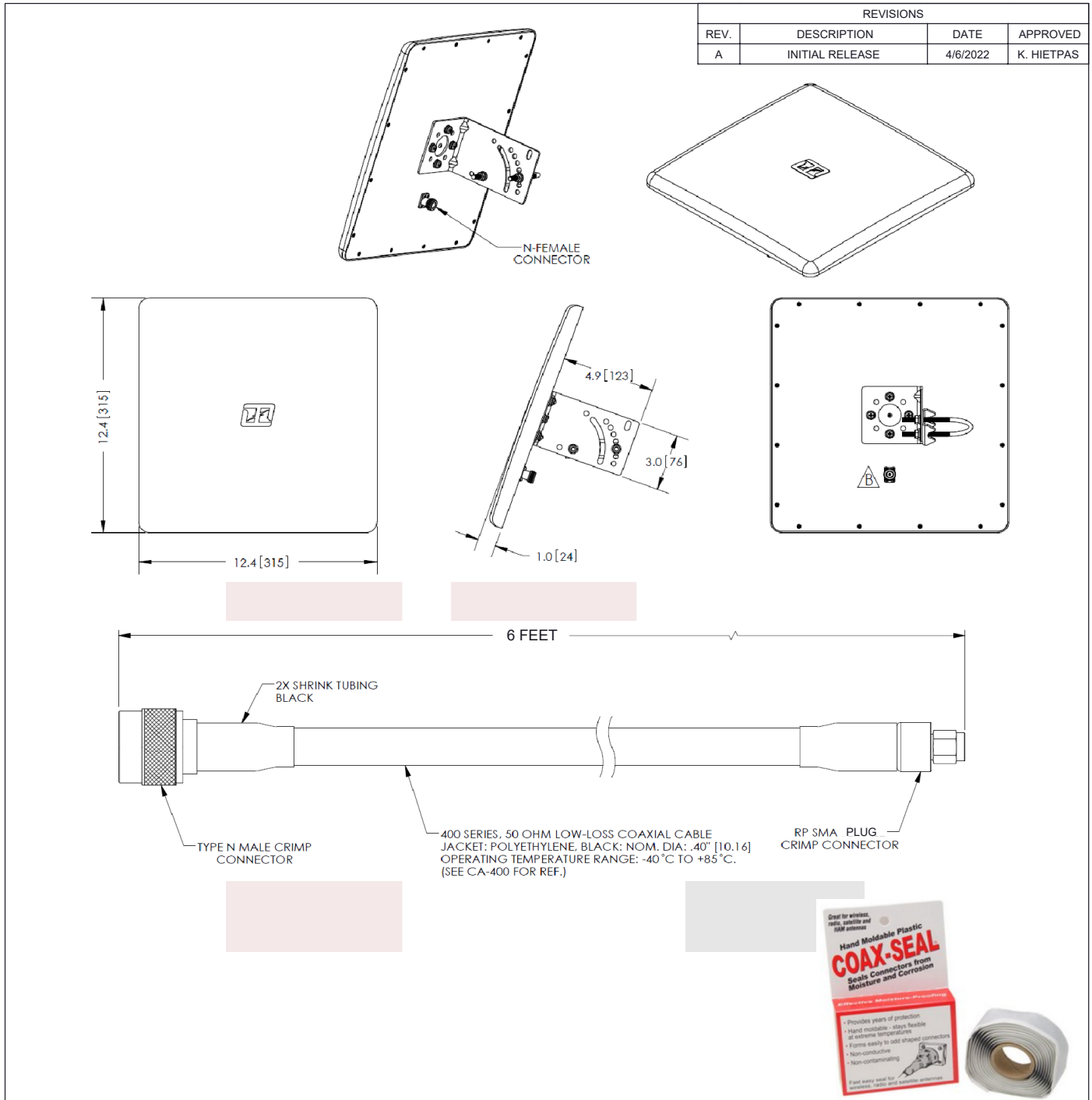


Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable FMANKIT1020](#)

URL: <https://www.fairviewmicrowave.com/hd-antenna-kit-9dbi-900mhz-panel-w-n-male-to-rp-sma-male-6ft-low-loss-400-cable-FMANKIT1020-p.aspx>

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

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| | | | | |
|---|--|--------------------|---|----------|
| <p>Fairview Microwave an INFINIT[®] brand</p> | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | THIRD-ANGLE PROJECTION | |
| | TOLERANCES: .X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ± 1/32 .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%L / -0 | |
| TITLE Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable | ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. | |
| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMANKIT1020 | REV A |
| SHEET 1 OF 1 | | | SCALE N/A | |

T-Rev.D