

Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector

The FMANKIT1022 Helium Hotspot HD Antenna Upgrade Kit from Fairview Microwave was designed with the serious Helium HNT Miner in mind. FMANKIT1022 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 FMANKIT1022 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 FMANKIT1022 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 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 FMANKIT1022 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	120 in [304.8 cm]
Connector Type	N Female
Lightning Protection	Lightning Protector

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



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
- Integral lightning surge protector with multi-strike capability and replaceable gas tube
- 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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Mechanical Specifications

Radome Material UV-inhibited Polymer

Size

Overall Length 15 in [381 mm]
Width 15 in [381 mm]
Height 4 in [101.6 mm]
Weight 6 lbs [2.72 kg]

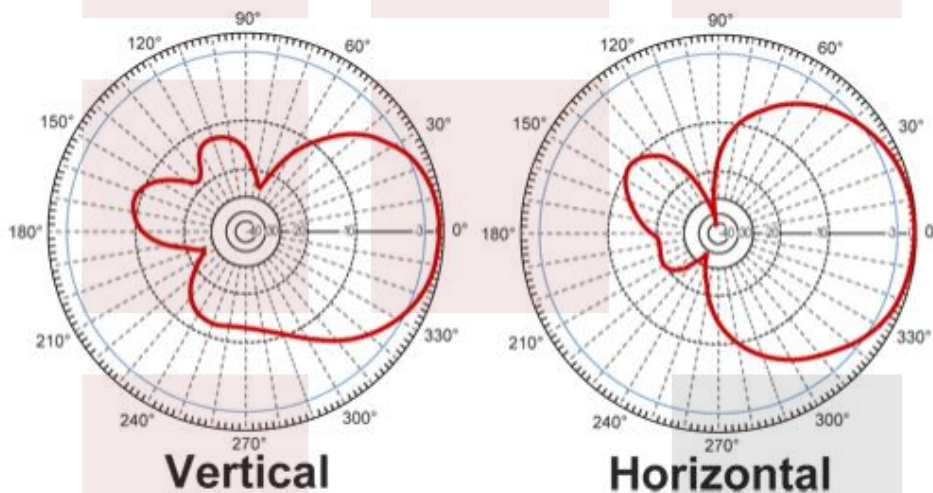
Environmental Specifications

Wind Loading 130 MPH [209.21 KPH]

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

Plotted and Other Data

Notes:



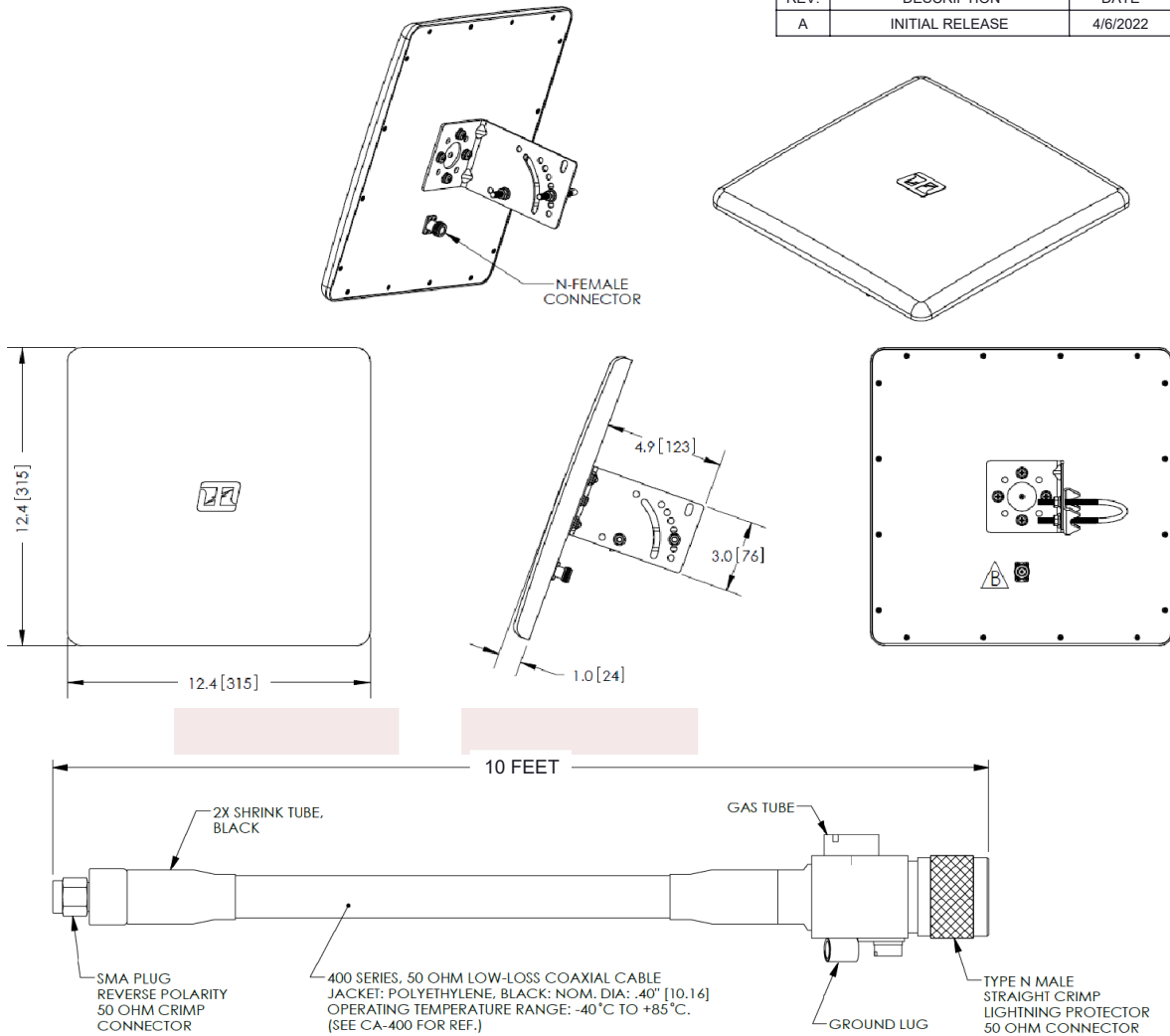
Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Antenna Upgrade HD Kit for Helium Hotspot , 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector FMANKIT1022](#)

URL: <https://www.fairviewmicrowave.com/hd-antenna-kit-9dbi-900mhz-panel-w-n-male-to-rp-sma-male-10ft-low-loss-400-cable-and-lightning-protector-FMANKIT1022-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



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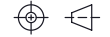
TITLE
Antenna Upgrade HD Kit for Helium Hotspot , 9dBi
900MHz Panel w/ N Male to RP-SMA Plug, 10ft Low
Loss 400 Cable and Lightning Protector

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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS	L ≤ 12 [305] = +1 [25] / -0
.XX = ±.02 [.51]	± 1/32	12 [305] < L ≤ 60 [1524] = +2 [51] / -0
.XXX = ±.005 [.13]	ANGLES ± 1°	60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
		300 [7620] < L = +5% L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE
N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FMANKIT1022	REV A
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