

BluTrak-90-D

BluTrak Tracking Antenna 10W with Dish

Overview:

BluTrak-90-D is a fully self-contained solution that allows for autonomous tracking of a UAV. BluTrak-90-D features an on-board microprocessor and embedded tracking algorithms, with no requirement for external processing. Housed in a rugged IP67 rated enclosure, the system integrates a BluSDR Mesh radio with 10W total power for robust connectivity. Designed for rapid deployment, it includes a built-in tripod and cable drum, engineered to perform reliably in demanding environments. A range of quick-dock dual polarity dish antennas offers flexible deployment, including various sector antennas with options available in L, S and C bands.



Features and Benefits:

- On-board microprocessor
- Tracking Via NMEA
- Tracking Via RSSI + MAVLINK available soon via firmware update.
- 10W total output power (2x5W COFDM transceivers)
- MeshUltra™ MANET waveforms in a self-forming, self-healing Mesh architecture
- Ideal for long range applications up to 90km
- Rugged IP67 design for environmental resistance
- Optional AES128/256 encryption
- Interlink mode for enhanced capability and large scale systems
- 128GB built-in storage
- Compact and lightweight 32kg
- Integrated IMU for automatic alignment
- Mechanical compass & level for manual alignment
- Internal GPS
- Integrated tripod and cable drum

Product Information:

Product Codes

BluTrak-90-D16-114150	BluTrak Tracking Antenna 1.14-1.50GHz 10W with 16dbi Dish
BluTrak-90-D20-198255	BluTrak Tracking Antenna 1.98-2.55GHz 10W with 20dBi Dish
BluTrak-90-D28-440500	BluTrak Tracking Antenna 4.40-5.00GHz 10W with 28dBi Dish

Product Includes

PoE Injector 50V

License Options (sold separately)

Includes DTC MeshUltra™ MANET Mesh capability as standard. See MeshUltra family brochure for more details.

BluSDR-IAS	Interference Avoidance Scheme for Mesh
†BLUSDR-P2MP	Point-to-Multipoint System for Mesh
BluSDR-RANGING	Ranging Measurements for BluSDR Radios
#AES128	AES128 Cryptography Licence
#AES256	AES256 & AES128 Cryptography Licence

Accredited to FIPS140-2 for MeshUltra™ waveforms

† Enables split frequency TX/RX operation for special applications. Contact DTC for more information.

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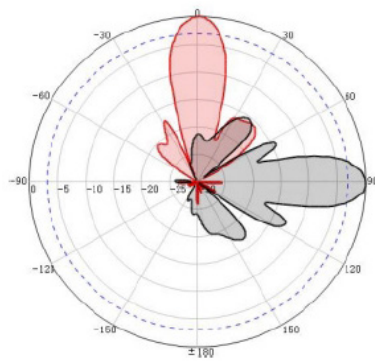
Technical Specification:

Interfaces	
Ethernet (PoE)	RJ45 Amphenol Cat 6 series
Antenna	
Impedance	50Ω
Power	50W max
Polarisation	Horizontal/vertical on ±45° slant
Gain	1.14-1.50GHz: 16dBi ±1dBi 1.98-2.70GHz: 20dBi 4.40-5.00GHz: 28dBi ±0.5dBi
VSWR	1.14-1.50GHz: ≤1.5 1.98-2.70GHz: ≤2.0 4.40-5.00GHz: ≤2.0
Horizontal/vertical beamwidth	1.14-1.50GHz: 27° ±4° 1.98-2.70GHz: 16° 4.40-5.00GHz: 5° ±0.5°
Front to back ratio	≥25dB
COFDM Transceivers	
RF power	5W (37dB) per output, 10W total
Power step	0.25dB incremental control
Tuning step	125kHz step
Bandwidth	1.25/1.5/1.75/2.5/3.0/3.5/4.0/5.0MHz (MeshUltra-M/-80/-X) 6.0/7.0/8.0/10.0/12.0/14.0/16.0/20.0MHz (MeshUltra-M/-80)
Mesh capacity	87Mbps MeshUltra
Carrier modulation	BPSK/QPSK/16QAM/64QAM (adaptive)
FEC rate	FEC1/2, FEC2/3 (adaptive)
Receive sensitivity	-98dBm (BW 2.5MHz/QPSK 1/2)

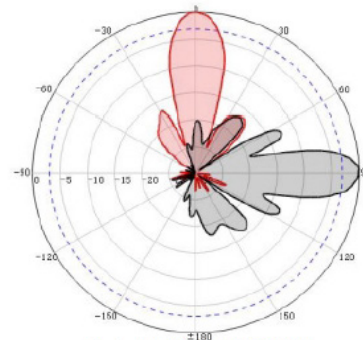
Drivetrain	
Slew rate	Up to 80°/s
Continuous pan	360°
Tilt range	90°
Encryption	
Standard	DES
Licensed	AES128/256 (subject to export control)
Power	
Supply	9-36VDC to injector (50V PoE)
Power consumption	100W peak / 50W idle
Environment	
Sealing	IP67
Temperature range	-20°C to +50°C
Physical	
Dimensions (antenna)	60cm dia.
Weight	32kg

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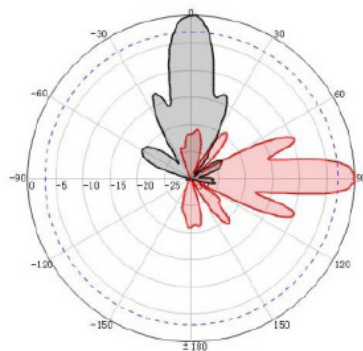
Technical Specification (cont.):



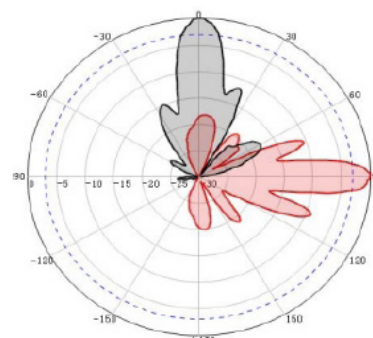
Horizontal 1140-1500MHz



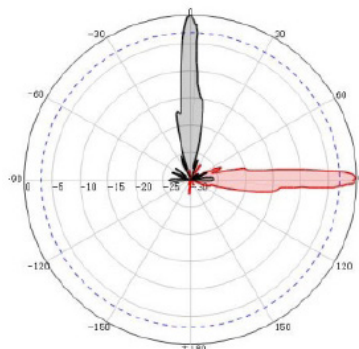
Vertical 1140-1500MHz



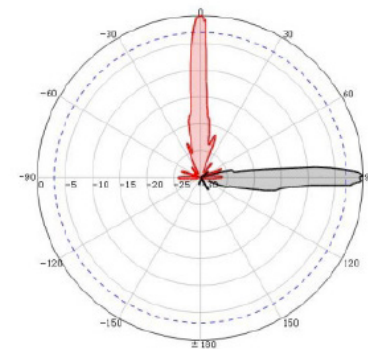
Horizontal 1980-2700MHz



Vertical 1980-2700MHz



Horizontal 4400-5000MHz



Vertical 4400-5000MHz

Encrypted products are subject to regulatory export controls

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.info@domotactical.com

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