

ML-TAC-HF-KIT-02

ModLink HD Tactical Communications Antenna System

The ModLink HD Tactical Communications Antenna System is a modular, passive HF antenna solution engineered for rapid deployment in tactical and expeditionary environments.

Passive impedance matching enables broadband operation without system power. External automatic antenna tuners may be required depending on frequency and configuration.



KEY BENEFITS

- » Rapid deployment capability (<5 minutes typical)
- » Passive impedance matching architecture
- » Wide frequency coverage (1-50 MHz capability)
- » Modular, mission-adaptable architecture
- » Lightweight carbon fiber radiator and tripod
- » Rugged construction for austere environments
- » Compatible with standard HF radios
- » Compact transport configuration

System Designation

Parameter	Specification
System Name	ModLink HD Tactical Communications Antenna System
System Part Number	ML-TAC-HF-KIT-02
Manufacturer	REZ Antenna Systems
System Assembly	USA (assembled from domestic and imported components)
Matching Unit Location of Manufacture	USA

Electrical Specifications

Parameter	Specification
Frequency Range	1–50 MHz
Supported Modes	SSB, CW, AM, FM, and Digital Modes
Power Rating (Digital)	30 W (50% Duty Cycle)
Power Rating (PEP)	100 W PEP
Matching Architecture	Passive impedance matching system
RF Connector	TNC female
Antenna Mount Thread	3/8-24 standard
Tuner Requirement	External automatic antenna tuner may be required depending on frequency and configuration

System Weight and Transport Characteristics

Parameter	Specification
System Weight	7.4 lb ± 0.3 lb (3.37 kg ± 0.11 kg)
Transport Length	25.4 in (64.5 cm)
Deployment Time	< 5 minutes typical

Standard System Configuration (ML-TAC-HF-KIT-02)

Component Description	Part Number	Quantity
ModLink Matching Unit	ML-TAC-HF-MU-01	1
Carbon Fiber Vertical Whip	REZ-Z-17-CF	1
Heavy-Duty Carbon Fiber Tripod	REZ-ZPOD-CF-HD	1
Radiating Wire Assembly	Included	1
Counterpoise Wire Assembly	Included	1
Feedline with Integrated Choke	Included	1
Wire Winders	Included	2
Wire Element Carry Pouch	Included	1
Ground Spike Mount	REZ-GSPIKE	1

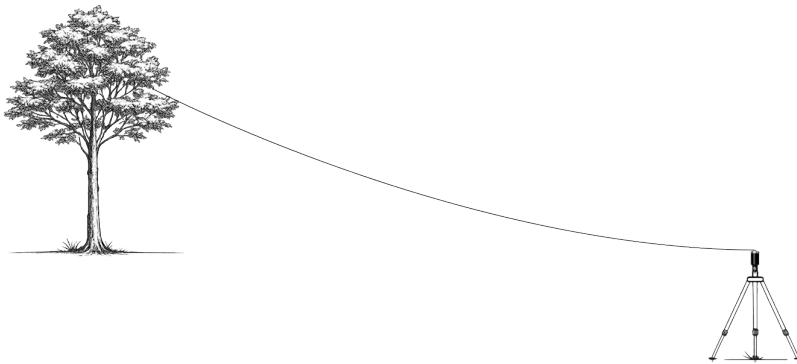
Compatible Radiators and Support Structures

Component Description	Part Number	Function
Carbon Fiber Vertical Whip, 17 ft	REZ-Z-17-CF	Primary vertical radiator
Stainless Steel Whip, 17.5 ft	REZ-Z17CSS	Alternate vertical radiator
Stainless Steel Whip, 25 ft	REZ-Z25SS	Extended length radiator
Heavy-Duty Carbon Fiber Tripod	REZ-ZPOD-CF-HD	Primary support structure
Lightweight Tripod Base	REZ-ZPOD-II	Alternate support structure
Ground Spike Mount	REZ-GSPIKE	Ground deployment support
Multi-Mount Adapter	REZ-MM	Tripod and mast interface adapter
Sloper Wire Radiator	REZ-EZ-SLPR	Alternate wire radiator configuration
Delta Loop Wire Radiator	REZ-DLWK	Wire radiator for delta loop configuration

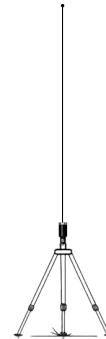
Operational Configurations and Deployment Flexibility

The ModLink HD Tactical Communications Antenna System supports multiple deployment configurations to accommodate varying terrain, mission profiles, and operational requirements. The passive broadband matching architecture enables use with vertical and wire radiators without requiring system reconfiguration. This flexibility allows operators to optimize antenna performance based on available space, propagation conditions, and deployment constraints.

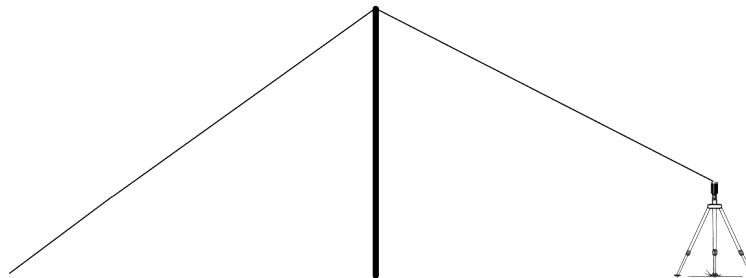
Configuration	Operational Characteristics
Sloper	Mixed regional and long-distance communication capability
Vertical Monopole	Omni-directional coverage suitable for general HF communications
Elevated Vertical Monopole	Improved efficiency and reduced ground loss in field deployments
Field-Expedient Wire Radiator	Supports improvised radiators using available wire and supports
Inverted V	Balanced regional coverage using a single elevated support point



SLOPER



VERTICAL MONOPOLE



INVERTED V