

SPARTIN™ UNIVERSAL ANTENNA KIT

Rugged Multi-Band Universal Transceiver Antenna System

The SPARTIN Universal Antenna Kit is an environmentally protected, portable, DC-powered adapter and extended range antenna that allows any L and S band radio, using its own encryption and waveforms, to remotely receive and/or transmit on seven different bands with Beyond Visual Line of Sight (BVLOS) range.

PRODUCT DESCRIPTION

VideoScout® is a family of video Processing, Exploitation, Dissemination (PED), management systems designed to capture, display, exploit, disseminate, and manage critical video intelligence from a variety of manned and unmanned sensors.

The SPARTIN Universal Antenna Kit further expands the VideoScout family of systems by providing users with a compact universal extended range portable antenna system designated for ground operations.

The SPARTIN Universal Antenna Kit allows any L and S band receiver or transceiver to receive and/or transmit analog and digital signals in the UHF, L, S, C-low, C-high, Ku-low, and Ku-high bands with extended BVLOS range.

The SPARTIN Universal Antenna Kit supports any length of off-the-shelf coaxial cable with a maximum insertion loss of up to 15 dB (approximately 100–500 feet depending on cable type) between the adapter and the antenna.

ADAPTER

- > **Adapter Power Input:** The SPARTIN Antenna Adapter (SPARTIN-AA) operates with a 9 to 33 VDC input and a maximum current draw of 20 Amps
- > **Adapter Power Output:** The SPARTIN-AA provides a filtered 16V or 24V, 40 Watts
- > **Adapter Control:**
The SPARTIN-AA is set up/controlled via a militarized USB connection using Insyte Software



ANTENNA

The SPARTIN antenna is a multi-band transceiver antenna designed to accommodate up to 15 dB of insertion loss over long cable runs and provide integrated multi-band elements.



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Allows radios to receive and transmit via the multi-band SPARTIN Antenna

KEY FEATURES

- > Ruggedized, portable antenna adapter system
- > Can be mounted atop surveillance towers, rooftops, vehicles, or any other desired platform
- > Allows any L/S band radio to receive and/or transmit on UHF, L, S, C-Low, C-High, Ku-Low and Ku-High bands
- > Allows the antenna to be remotely mounted up to 500 feet from the radio

PHYSICAL SPECIFICATIONS

- > External interfaces
 - Power input: 9-33 VDC, 71 Watts Maximum, per MIL-STD-1275D
 - Power output: 16V or 24V (specified at time of order), 40 Watts Maximum
 - USB interface: USB 2.0 Slave
 - Receive interface: Provides RF output from the antenna to the radio
 - Transmit interface: Provides RF output from the radio to the antenna
 - Antenna interface: Provides connection to the SPARTIN Antenna
- > Size: 7" (w) x 8.5" (d) x 2.28" (h)
- > Weight: < 4 lbs (excluding antenna)
- > Colors: Gray, tan or green

ENVIRONMENTAL SPECIFICATIONS

- > Altitude (storage): MIL-STD-810H, Method 500.6, Proc I, 40,000 feet
- > Altitude (operating): MIL-STD-810H, Method 500.6, Proc II, 20,000 feet
- > Temperature (storage): MIL-STD-810H, Method 501.7, 502.7, Proc I, -46°C to +85°C
- > Temperature (operating): MIL-STD-810H, Method 501.7, 502.7, Proc II, -40°C to +65°C
- > Temperature shock: MIL-STD-810H, Method 503.7, Proc 1-C,
- > Rain: MIL-STD-810H, Method 506.6, Proc I
- > Humidity: MIL-STD-810H, Method 507.6, Proc II
- > Fungus: MIL-STD-810H, Method 508.8, Annex B
- > Salt Fog: MIL-STD-810H, Method 509.7
- > Dust: MIL-STD-810H, Method 510.7, Proc I
- > Sand: MIL-STD-810H, Method 510.7, Proc II



SPARTIN Multi-Band Transceiver Antenna
(with optional vehicle mount, PN: 430-1504-00X)



SPARTIN Antenna Adapter
(front view)



SPARTIN Antenna Adapter
(rear view)

SPARTIN Universal Antenna Kit (PN: 700-1500-00X)

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