

Rajant Radio

Kinetic Mesh® Radio Kit

The Rajant Kinetic Mesh Radio Kit quickly establishes a robust network to teleoperate Spot in lieu of WiFi on site.

Deploy Spot quickly and easily within an isolated network, with no infrastructure required.



Features

((•)) Radio (~250

Radio coverage up to 200,000 sqft (~250ft radius per radio indoors)



Radios support dual band 2.4 GHz and 5.8 GHz



Easy to mount on top of Spot, Spot EAP, or Spot CORE



Comes with default settings to run on Spot out of the box

In the Box

- Four Rajant ES1 BreadCrumb radios, including two repeater nodes, one Spot-mountable radio, and one operator control unit (OCU)
- Three tripods for the OCU and repeaters
- Three 120VAC POE power supplies (repeaters and OCU)
- Spot GXP with POE
- Travel case



Génération robots, official distributor gr@generationrobots.com +33 5 56 39 37 05 www.generationrobots.com



) Specifications

RAJANT ES1 BREADCRUMB

Wireless Options = 2.4 GHz or 5.8 GHz Antenna Connector = (2) Type N (female) Frequency¹ = 2402 — 2482 MHz (2.4 GHz)

U-NII-1: 5150 — 5250 MHz (5.8 GHz) U-NII-2A: 5250 — 5350 MHz (5.8 GHz) U-NII-2A: 5250 — 5350 MHz (5.8 GHz) U-NII-2C: 5470 — 5725 MHz (5.8 GHz) U-NII-3: 5725 — 5850 MHz (5.8 GHz)

Modulation = DSSS (2.4 GHz), CCK (2.4 GHz), OFDM (2.4 or 5.8 GHz) Max. Physical Layer Data Rate = 300 Mbps (throughput varies) Max. RF Transmit Power² = 29 dBm ± 2 dB Receive Sensitivity =

Varying between -93 dBm \pm 2 dB and -72 dBm \pm 2 dB

NETWORK + SECURITY

Network Functionality =

VLAN and QoS support; Access Point; Bridge; Gateway; DHCP; NAT and Port Forwarding; Automatic Protocol Tunneling (APT) Security =

- Multiple cryptographic options, including NSA Suite B algorithms (implementation not certified). For information on models with full Suite B certification, contact Boston Dynamics.
- Separately configurable data and MAC address encryption via AES256-GCM, AES192-GCM, AES128-GCM, AES256-CTR, AES192- CTR, AES128-CTR, XSalsa20, XSalsa20/12, and XSalsa20/8.
- Configurable per-hop, per-packet authentication between BreadCrumbs via AES256-GMAC, AES192-GMAC, AES128-GMAC, HMAC-SHA512, HMAC-SHA384, HMAC-SHA256, HMAC-SHA224, HMAC-SHA1, and Poly-1305-AES.
- Supports IEEE 802.11i: AES-CCMP and TKIP encryption, WPA Personal/Enterprise, WPA2-Personal/Enterprise, 802.1x; 64/128-bit WEP; Access Control Lists; Compatible with Layer-2 and Layer-3 client/server and peer-to-peer security solutions; Compatible with Harris SecNet 54[®] encryption.

INPUT / OUTPUT

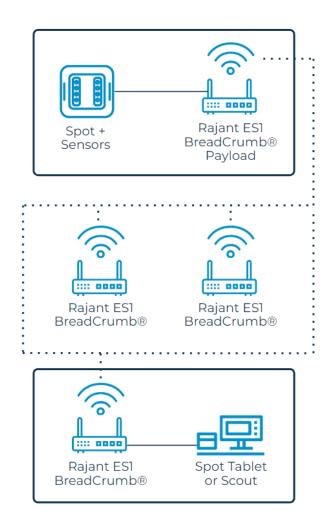
Ethernet = (1) 10/100/1000 Mbps IEEE 802.3, RJ-45, auto MDI/MDIX **USB** = USB port for firmware upgrades, and for GPS device add-on (through adapter cable)

LED = Status LED

Switch = LED Configuration / Zeroize Keys and Restore Factory Defaults (through optional adapter cable)

 ¹ Channel, frequency, and bandwidth options vary based upon regional and local regulations and certifications.
² RF transmit power is governed by local regulations and varies by frequency.

Robot Radio Configuration Standard radio kit in action



Contact

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BostonDynamics