Persistent Systems Radio

MPU5 Point to Point Radio Kit

The Persistent Systems MPU5 Radio Kit enables point to point communications between Spot and its operator.

Deploy Spot quickly and easily through a secure network with no infrastructure required.

Features

Creates a powerful, secure network anywhere

Able to mesh if a wider network is needed

Radios support 2.4 GHz

Easy to mount on the robot and clip onto the operator's belt or vest

Small size fits under the Spot Arm

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

In the Box

- One robot-mountable MPU5 radio with antennas, including Spot GXP
- One operator, belt-mounted MPU5 radio with antennas
- Spot Tablet Joysticks connector module*
- Two-bay radio battery charger

*Spot Tablet Joysticks are required for use

Boston Dynamics

Specifications

SPOT MOUNTED RADIO
Length (with antennas) = 380 mm (15.0 in)
Length (without antennas) = 208 mm (8.2 in)
Width = 190 mm (7.5 in)
Height = 70 mm (2.8 in)
Mass/Weight = 1.8 kg (3.9 lbs)
Mounting = 4 x M5x8 screw

OPERATOR RADIO
Length (with antennas and battery) = 390 mm (15.4 in)
Length (without antennas and battery) = 140 mm (5.5 in)
Width = 70 mm (2.8 in)
Depth = 40 mm (1.6 in)
Total Mass/Weight (with antennas and battery) = 1.1 kg (2.4 lbs)
Mounting = Belt clip

RADIO TRANSMISSION DETAILS
Model = Persistent Systems MPU5 RF-2150
Frequency Range = 2412 - 2462 MHz
RF Modulation = OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Chains = 3 Independent RF Chains
TX/RX Operating Modes = All MIMO modes from SISO to 3x3
Channel Bandwidth = 5, 10, and 20 MHz
Peak TCP Throughput = 150 Mbps at 20 MHz Channel
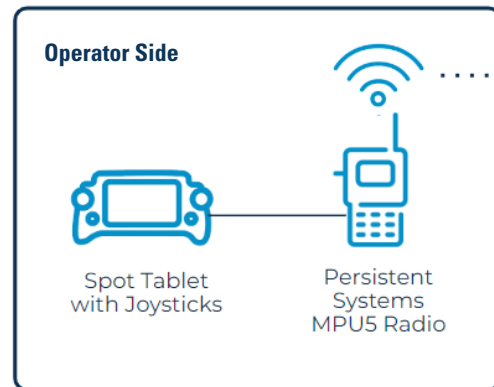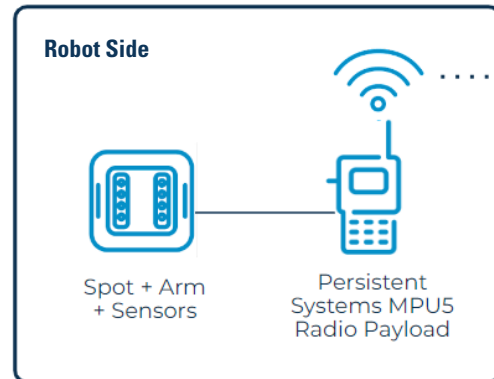**Configured Transmit Power** = .955W

ENVIRONMENT
IP Rating = IP68
Storage Temperature = -40°C to 70°C
Operating Temperature = -20°C to 45°C

Network Diagram

Robot Radio Configuration
Standard radio kit in action

Robot Side

Spot + Arm + Sensors

Persistent Systems MPU5 Radio Payload

Operator Side

Spot Tablet with Joysticks

Persistent Systems MPU5 Radio