

Now Available

Haystack™ Demo Kit 1.0 for LoRa® (Beta)

Proof-of-concept for your mobile LPWAN vision

EXCELLENT RANGE

Using Semtech's LoRa™ LPWAN radio technology, the HayTag gateway offers outdoor communication range of 1/2 to 10 miles, depending on terrain, with battery-powered LoRa endpoints running DASH7.

UNSURPASSED GEOLOCATION CAPABILITIES

Real-time, low power, high-precision GNSS/GPS, RSSI, and TDOA-based geolocation capabilities. High precision wireless clock sync.

DEMONSTRATES DASH7 NETWORKING FOR LoRa

Fully bi-directional, low latency DASH7 communications over LoRa. LDPC error correction minimizes lost packets.

Basic Features:

- Basic demonstration of Haystack DASH7 XR Mode and GPS location capabilities.
- Fast setup enables convenient demonstration or concept testing
- GeoStack web-based application provides easy access



Includes:

- (3) HayTag 2.0 LoRa Endpoints
- (1) Haystack Gateway 1.0 for LoRa
- (1) Haystack 915 MHz UGPA External Monopole Antenna
- GeoStack web-based application for location monitoring of tags.

System specifications:

- 900 MHz band Semtech LoRa® connectivity
- Haystack DASH7 networking engine for LoRa, including LDPC two-way error correction
- Gateway: OpenWRT-based Linux operating system, 2.45 GHz WiFi 802.11n internet connectivity, 580 MHz CPU, 128 MB RAM

Features:

- GeoStack HTML5-based geolocation and configuration application. Gateway provides a web-server that hosts the GeoStack application, allowing any HTML5-based browser to access it directly over WiFi.