



Redpoint

See the moving world



Indoor PoE Anchor

The Indoor Power-over-Ethernet Anchor Gen.2 is used to form the mesh infrastructure of Redpoint's ultra-wideband (UWB), RTLS solution. Using a custom configuration of these wall-mounted radio anchors, you can create a dynamic network that enables communication with any UWB device – such as the Redpoint asset tag or badge tag – located within the network.

- The Indoor PoE Anchor is a full-function anchor designed to be deployed indoors.
- It is easily mounted to a surface such as a wall or column using the provided mounting bracket.
- The device may be connected directly to a PoE switch to provide data connectivity as well as power or may be used stand-alone as part of a larger mesh network.
- The anchor provides coverage over a maximum radius of 50m (170'). The antenna power is configurable for installations where smaller coverage areas are desired.
- When used with Redpoint's tags, the anchor provides 20cm (8") accuracy in two dimensions over its full coverage area.
- All firmware can be upgraded over-the-air when connected to a UWB mesh network, as well as over the wired network.

Redpoint provides a total RTLS solution.

The Indoor PoE Anchor Gen.2 is the starting point to build your real-time location system network. Contact Redpoint about the other products we offer to complete your RTLS solution.

Features

Accuracy

Up to 20cm (8") accuracy with a two-dimensional network configuration.

Range

Omnidirectional coverage with 50m (170') range to create the UWB mesh network.

Power

Power-over-ethernet provides constant DC power as well as data connectivity when connected to a switch.

Easy to update

Over-the-air (OTA) updates provide full upgradeability and customized configuration.



Redpoint Indoor PoE Anchor Gen.2

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website at www.redpointpositioning.com

System

Parameter	Value
Operation Modes	Tracking, navigation
Typical Accuracy	20cm in optimal conditions
Tag Update Rate	Configurable: 1Hz, 2Hz or 4Hz
Tag Density	Tracking mode: dependent on update rate. Navigation mode: unlimited
Network Topology	Full mesh, self-organizing, self-healing
Network Scale	Each RTLS network may support up to 65,000 anchors.
Communication Range	50m line-of-sight in typical working environment
Operating Frequency	3.5 - 6.8 GHz
Channel Bandwidth	500 MHz
Peak data rate	850 kbps

Ethernet

Parameter	Value
Data	Auto-detect 10/100Mbps
PoE Mode	IEEE 802.3af/at and passive mode*

**In PoE passive mode, the anchor accepts any voltage from 6v to 60v through a PoE injector.*

Mechanical & Environmental

Parameter	Value
Anchor	87mm x 67mm x 27mm
Temperature	-20°C to 70°C
IP Rating	None. Indoor use only.

DC Characteristics

Parameter	Value
Voltage	Min: 6V Max: 60V
Current	110mA @ 6V (anchormode) or 180mA @ 6v (bridge mode)

Ordering information

The Indoor PoE Anchor Gen.2 may be ordered directly through Redpoint. Place a request using part number 9000-0411.