



Wireless Detection Without Repeaters

The Access Point and Antennas are mounted on an intersection pole or mast-arm, providing two-way wireless communication between the Pods and Base Station. The unit may be installed in any location that provides adequate signal coverage to the sensors and the Base Station. A wired connection to the Base Station is also available. There are four radios: three for broadcasting to the Pods and one for communication to the Base Station.

A single omnidirectional Antenna covers the Pods located at the intersection. Long-range directional Antennas are used for advance detection when the Pods that are located up to 700 feet away. These long-range Antennas are typically mounted back-to-back on the mast-arm. The availability of long-range Antennas eliminates the need for repeaters.

Product Features & Specifications

FEATURES	
Radio Communications	To and from the Access Point Three radio modules talk to and from up to 130 wireless sensors
Relay of Sensor Data	Buffers and relays data to the sensors or Base Station Wireless or wired EIA-485 connectivity between the Base Station and the Access Point
Master Timebase for All Supported Wireless Sensors	Synchronized through the Access Point Keeps the sensors synchronized
Radio Signal Quality Measurements	Receive signal strength indicator (RSSI) of Pod link RSSI of Base Station wireless link
Firmware Upgrades	Can be upgraded through the Base Station Can deliver upgrades to all other Pods

PART NUMBERS	
Access Point, 3 radios	50284-2003
Access Point kit	50284-2103

SPECIFICATIONS	
Frequency Band	<ul style="list-style-type: none"> • 2400 to 2483.5 MHz for Base Station wireless link • 902 to 928 MHz (ISM unlicensed band) for Pod wireless link
Frequency Channel	<ul style="list-style-type: none"> • 16 for Base Station wireless link • 60 for Pod wireless link
Ambient Operating Temperature Range	-35°F to 167°F (-37°C to 75°C)
Humidity	100%, IP67 Rating
Channel bandwidth	<ul style="list-style-type: none"> • 2 MHz for Base Station wireless link • 430 KHz for Pod wireless link
Operating Voltage	120 VAC
Current Draw	60mA
Dimensions	6.3"H x 7.9"W x 7.9"D



Cubic | Trafficware's Pod Detection System™ uses patented technology exclusively licensed from Massachusetts Institute of Technology (M.I.T.) and has one or more features covered by one or more of the following patents: U.S. Patent Nos. 6,662,099, 8,855,902 and 9,020,742. Other patents pending. The foregoing notice is intended to serve as a notice under 35 U.S. C. § 287(a).