



Designed for 33X, NEMA & ITS Cabinets

Located in the control cabinet, the Rack Mount Base Station installs into an existing loop detector rack and is the central controller of the Pod system. It uses a Linux operating system and has the computing power of a full advanced transportation controller, providing data processing and storage.

The front interface provides a synchronous data link control (SDLC) connection for NEMA TS2 cabinets; this provides a direct connection and eliminates the need for additional expansion cards or discrete wiring. The Base Station is capable of emulating one to four bus interface units (BIUs) and is able to run in parallel with loops and other forms of detection.

The Rack Mount Base Station allows the Pod to interface with 33X and NEMA cabinets with detector racks. It seamlessly communicates with the Access Point, either wired or wirelessly, to support more than 150 Pods per intersection.

Product Features & Specifications

FEATURES	
Radio Communications	• To and from the access point
Connections	<ul style="list-style-type: none"> • Ethernet ports (2) • USB 2.0 Connection (Full Speed) • EIA-485 to Access Point • EIA-485 SDLC NEMA TS2 • Serial Port to I/O Expansion Cards
Storage of Sensor Data	<ul style="list-style-type: none"> • Data buffering (event caching) • Data storage (processed data)
Master Timebase for All Supported Wireless Sensors	<ul style="list-style-type: none"> • Common clock for sensor timestamps • Can be synchronized to the National Institute of Standards and Technology's network time protocol timing signals or a traffic controller through the SDLC connection
Radio Signal Quality Measurements	• Receive signal strength indicator for all RF links
Methods of Relaying Sensor Data	<ul style="list-style-type: none"> • Contact closure signals to the traffic controller • SDLC to traffic controller • IP connectivity to traffic management systems, upstream servers, etc
Firmware Upgrades	<ul style="list-style-type: none"> • Can be upgraded through IP connectivity or through local PC connection • Can deliver upgrades to all other Pod system devices
Simple Installation	• Installs in a detector rack and connects to antenna on cabinet or to wired A/P connection

PART NUMBERS

Rack Mount Base Station	50311-2000
Expansion Card	50312-2000
Rack Mount Base Station Kit	50311-2100

SPECIFICATIONS

Frequency Band	2400 to 2483.5 MHz
Frequency Channel	16
Ambient Operating Temperature Range	-35°F to 167°F (-37°C to 75°C)
Humidity	95% max, non-condensing
Channel Bandwidth	2 MHz
Memory	512 MB
Operating Voltage	12/24 VDC
Current Draw	200 mA @ 24 VDC
Dimensions	4.5"H x 2.3"W x 6.97"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 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).