



BlueTOAD[™] Roadside Bluetooth[™] Sensor Equipment Power over Ethernet (PoE) Configuration

BlueTOAD Installation Guide

Customer Support 1-608-268-3941



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PCB Power Cord **CAT-5 Ethernet** to PoE Splitter Cable to PCB mu@mm **PoE Splitter** 5/12V DC Serial Port (used for IP configuration) **Unit Status CAT-5 Ethernet LED Indicators** Cable to PoE S2-Bluetooth (Blue) Splitter S1-Boot (Green) Bluetooth Antenna Cable Liquid-Tight Cable Gland Housing for CAT-5 Ethernet Cable **Bluetooth** from PoE Injector Antenna in existing cabinet to PoE Splitter

BlueTOAD Unit Mounting How-To Basics

Category	Recommended Requirements
Mounting structure	Lamp or signal poles (BlueTOAD \sim 10 lbs.)
Height	Clear immediate obstacles - 10' – 14' ground clearance ideal
Antenna Clearance	The device should be mounted such that the external Bluetooth antenna is as unobstructed as possible and so that it has a clear line of sight to the target road segment
Antenna Alignment	Use the BlueTOAD front cover (enclosure door face) as an antenna reference.
	If the BlueTOAD unit is mounted on side of the road, place front cover parallel to the road.
	If the BlueTOAD unit is mounted on the center median, place the front cover perpendicular to the road.

BlueTOAD Sensor Equipment Components

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The BlueTOAD standard unit package includes two (2) mounting brackets and two (2) metal cable bands designed for mounting on, poles, I-Beams, or support structures up to a 14" diameter.



BlueTOAD Unit Roadside Alignment

from enclosure

- Alignment A: For roadside install, Front Cover mounted parallel to roadway.
- Alignment B: For center median install, Front Cover mounted perpendicular to roadway.

Install CAT-5 Ethernet Cable

- 1. Run CAT-5 cable from the roadside cabinet to where the BlueTOAD unit is mounted
- 2. Pass the CAT-5 Ethernet cable through CAT-5 Ethernet Cable to PCB the Liquid-Tight Cable Gland. The strain relief on the cable will have to be removed in order to fit through the Cable Gland. The Strain Relief can be slid away from the RJ-45 connector without cutting the relief.
- 3. Insert the RJ-45 connector into the **PoE Splitter**
- 4. Tighten the Cable Gland





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Connect Bluetooth Antenna

Attach Bluetooth Antenna. Take extra precaution not to detach the cable from the connector on the BlueTOAD PCB.

- 1. Secure antenna with Nut on inside of enclosure
- 2. Connect Bluetooth cable to antenna
- 3. Hand-tighten (with most connectors and antennae, hand-tension is preferred)



Install PoE Injector in Roadside Cabinet

- 1. Secure PoE injector onto flat surface inside roadside cabinet
- 2. Attach Ground Wire
- 3. The PoE injector has two (2) RJ-45 receptacles
 - · Data connects to network Ethernet switch, router, or hub
 - · Data & Power connects to the BlueTOAD unit (PCB)
- 4. Connect AC power supply to PoE Injector and "plug" the 110V cord to AC power outlet



Turn ON BlueTOAD Unit

To automatically turn ON the BlueTOAD unit, plug the power cord into the mated connector on the BlueTOAD PCB.

CAT-5 Ethernet Cable to PCB					
	LED	Color	At Initial Start-up	At Normal State (May take up to 3 minutes)	
	S1- Boot	Green	Blink - 4 times per second	Blink - 1 time per 3 seconds	
	S2-Bluetooth	Blue	Off	Blink - 3 times per 3 seconds	

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PoE Splitter

CAT-5 Ethernet

Cable to PoE

5/12V DC