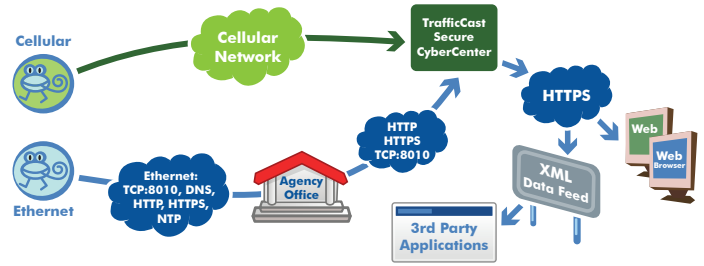
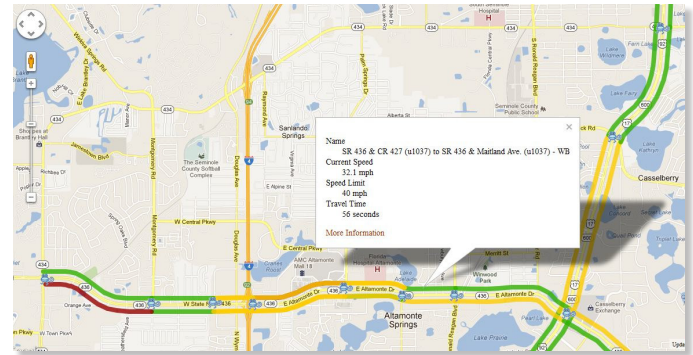




Ethernet or Cellular Communications | AC, PoE, or Solar Power
Real-Time Travel Times and Speeds
Web-Enabled and Archived Data Management

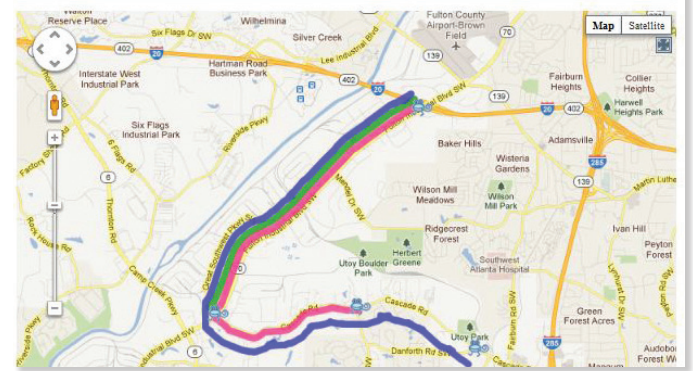


Real-Time Communications Options

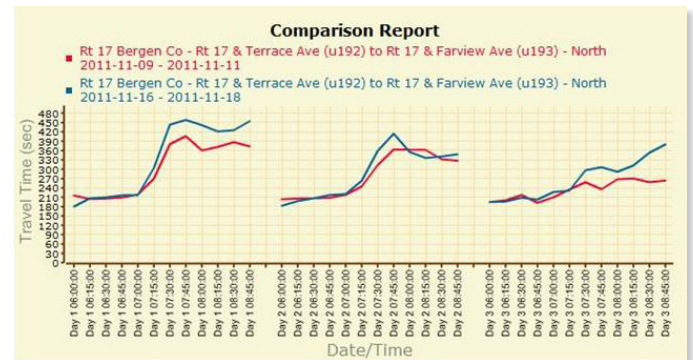


BlueTOAD Speed Map

Origin	Destination	Waypoint	Map/Graph Color	Number of matches	Percentage of matches	
Hwy 20 (402) & Fulton Industrial Blvd (Device 199)	Cascade Rd & Fulton Industrial Blvd (Device 207)		Green	3142	87.64%	Edit path
Hwy 20 (402) & Fulton Industrial Blvd (Device 199)	Cascade Rd & New Hope Rd (Device 213)		Pink	218	6.08%	Edit path
Hwy 20 (402) & Fulton Industrial Blvd (Device 199)	Cascade Rd & Danforth Rd (Device 210)		Blue	225	6.28%	Edit path
Total				3585	100%	



Origin/Destination Reporting



Comparison Reports

BlueTOAD

Bluetooth Travel-time Origin And Destination Advanced System

BlueTOAD™ is the most advanced traffic-monitoring system on the market, directly measuring travel times using cost-effective, non-intrusive roadside technology.

Reliable Technology

BlueTOAD detects anonymous Bluetooth signals broadcast from mobile devices to determine accurate travel times and speeds.

Real-Time Data

BlueTOAD calculates travel times and speeds in real-time to provide route management capabilities.

Flexible Installation

BlueTOAD can be installed independent of local power or communications systems by using a cellular data connection and solar panel, or can be plugged into existing electrical and/or fiber infrastructure. Utilizing Power over Ethernet (PoE) technology simplifies network design and deployment.

Powerful Data Processing

The TrafficCast secure cyber-center processes the data collected by BlueTOAD devices. Data can be viewed in real-time or analyzed historically through a BlueTOAD Web interface, which provides travel times, road speeds, and MAC address detection counts.

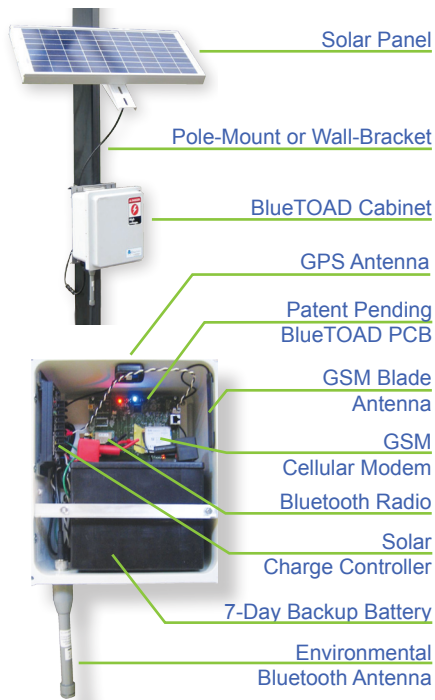
BlueTOAD System Advantages

- TrafficCast proven algorithms for filtering and processing data inputs to compute real-time travel times and speeds.
- Speeds/travel times updated in real-time on a secure web “Dashboard” and speed maps.
- XML schema is available for third-party integration such as an Advanced Traffic Management System (ATMS), agency website, or Dynamic Message Sign (DMS) software control.
- Secure web interface for generating statistical and analytical reports covering: speeds, travel times, origin/destination, and before and after comparisons.
- Real-time monitoring of device status and performance.

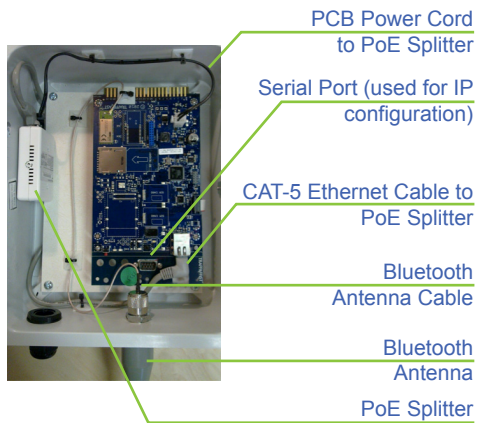
Power over Ethernet (PoE) Benefits





- Single Power over Ethernet (PoE) shielded CAT-5 Ethernet cable supplies power and network connection to each BlueTOAD unit.
- Save conduit space and simplify installation using single Ethernet cable suitable for longer distances.

BlueTOAD Cellular



BlueTOAD Ethernet (PoE)



BlueTOAD Cellular Power Options	BlueTOAD Ethernet Power Options
 Solar Power with Battery 110-220 VAC / 6-40 VDC	 Power over Ethernet (PoE) 110-220 VAC / 6-40 VDC
 AC Power 110-220 VAC	
 Power over Ethernet (PoE) 110-220 VAC / 6-40 VDC	

Technical Specifications

BlueTOAD Cellular

Power Specifications

Voltage Input: 6 – 30 Volts
 GSM Modem-Based - Max Current @ 12V - 350 mA (Typical 140 mA)

Power Source Options

- **100 - 240 VAC**
- **Solar Power 30W, 16.8Vmp Solar**
 Weight: 16.6 lbs. (incl. mounting bracket)
 Battery: 44 Ah Sealed AGM
- **Solar Power 50W, 17.5Vmp Solar**
 Weight: 25.2 lbs. (incl. mounting bracket)
 Battery: 44 Ah Sealed AGM
- **Power over Ethernet (PoE)**
 IEEE 802.3af standard
 110/220 VAC supply to injector

Operating Range

-30°C to +65°C

Processor

Real time microcontroller

Connectivity

GSM Quad-band Bluetooth

Bluetooth

CSR Bluecore 4 Class 1

Data Storage

Secure Digital (SD) – up to 1 year of storage

Antennae

Bluetooth: 4 dBi Omni (Standard)
 Custom options available

GSM: I-Bar Penta Band Cellular Antenna

GPS: Active Patch 31 dBi

NEMA 4X Enclosure

12 in. x 10 in. x 7.75 in.

Weight (with battery & mounting brackets): 43 lbs.

BlueTOAD Ethernet

Power Specifications

DC Supply Voltage: Minimum - 6 VDC
 Maximum - 40 VDC
 DC Supply Current: Maximum 100 mA @ 12 VDC

Power Source Options

Power over Ethernet (PoE)

IEEE 802.3af standard
 110/220 VAC supply to injector

Operating Range

-30°C to +65°C

Processor

Real time microcontroller

Connectivity

Ethernet 10BASE-T / 100BASE-T
 Static or DHCP IP Addressing

Bluetooth

CSR Bluecore 4 Class 1

Data Storage

Secure Digital (SD) – up to 1 year of storage














Antenna

Bluetooth: 4 dBi Omni (Standard)
 Custom options available

NEMA 4X Enclosure

10 in. x 8 in. x 5.75 in.

Weight (with mounting brackets): 9 lbs.

Functionality	BlueTOAD Cellular	BlueTOAD Ethernet
Non-intrusive detection		
Power over Ethernet		
Solar Power Option		
Real-Time Communications		
Web-based Software		
Travel Time, Speed Reports & Graphs		
Archived data		

TRAFFICCAST

TrafficCast International, Inc., 2801 Coho Street, Suite 100, Madison, WI 53713
 Phone: 608.204.0001 • Fax: 608.204.0114 • www.trafficcast.com/products • sales@trafficcast.com

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