

by TRAFFICCAST™

# BlueTOAD™

Now Available, BlueTOAD in a New Low-Profile Design...  
Combined with BlueARGUS to deliver enhanced Travel-Time Reliability!

## Travel Time Reliability (TTI, BTI & PTI)

### Report Parameters

Route  
12207 (Man O War - East)  
Free Flow Speed  
44 mph

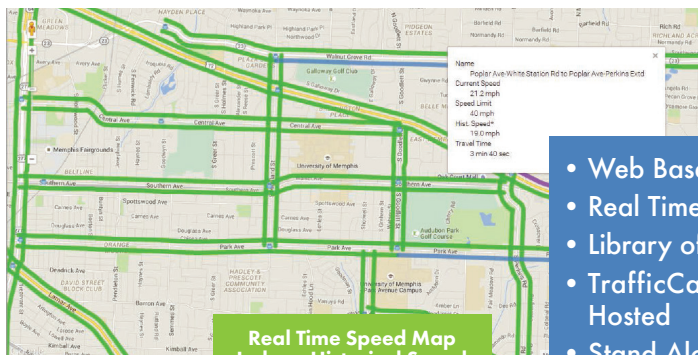
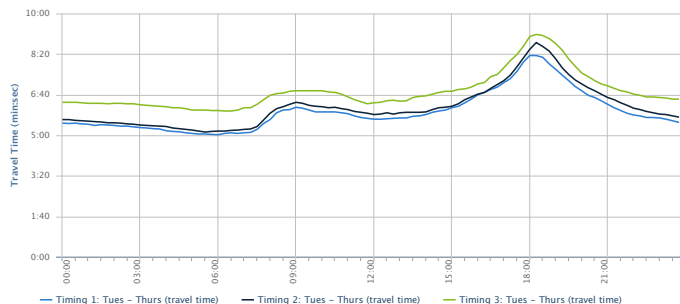
### Travel Time Reliability Study

Study Range  
From 09-01-2015 to 01-31-2016  
Study Day(s)/Time  
Weekdays 07:00 to 10:00 every day grouped by Month (90th percentile)

| From 09-01-2015 to 01-31-2016 (Weekdays 07:00 to 10:00 every day grouped by Month (90th percentile)) |              |             |              |
|--|--------------|-------------|--------------|
| Day/Time   | TTI          | BTI         | PTI          |
| 09-2015  | 1.4 (16.40)  | 0.29 (4.47) | 1.81 (21.27) |
| 10-2015  | 1.45 (17.10) | 0.35 (5.59) | 1.95 (23.09) |
| 11-2015  | 1.43 (16.58) | 0.34 (5.44) | 1.91 (22.42) |
| 12-2015  | 1.39 (16.29) | 0.25 (4.10) | 1.74 (20.39) |
| 01-2016  | 1.44 (17.04) | 0.24 (4.09) | 1.79 (21.13) |

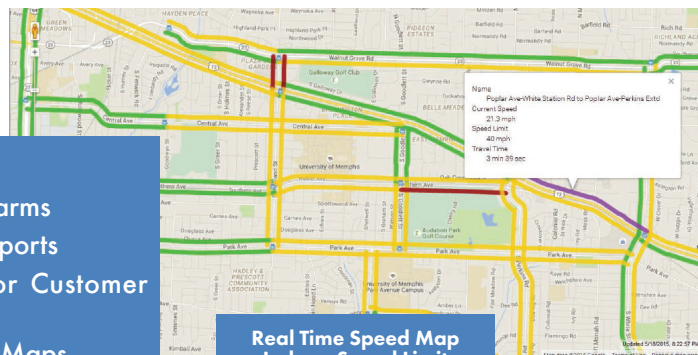
## Historical Reports (Graph, HTML & CSV Outputs)

Historical Trends for Tates Creek - South



Real Time Speed Map Index - Historical Speed

- Web Based
- Real Time Alarms
- Library of Reports
- TrafficCast or Customer Hosted
- Stand Alone Maps



Real Time Speed Map Index - Speed Limit

## BlueTOAD – Bluetooth Travel-time Origin And Destination

BlueTOAD™ is the most advanced traffic-monitoring system on the market, directly measuring travel times using cost-effective, non-intrusive roadside technology. Designed to detect anonymous Bluetooth signals broadcast from mobile devices to determine accurate travel times and speeds, BlueTOAD calculates travel times and speeds in real-time to provide route management capabilities.

### BlueTOAD Ethernet – New, low-profile design, same powerful installation options...

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.

Summary of available BlueTOAD configurations:

- BlueTOAD POE
- BlueTOAD cellular with optional POE
- BlueTOAD cellular with solar power

### BlueARGUS – BlueTOAD Travel-Time-Based Performance Software

BlueARGUS is the most comprehensive database manipulation software, optimized for travel-time data and dashboard-based visualization. Monitor traffic congestion right from your browser. BlueARGUS provides data analysis using intuitive data selection menus - No programming needed!

Aggregate dozens of unique data calculations to combine multiple views of travel-time data. Get richer insight to changing traffic patterns and trends. BlueARGUS is optimized for any agency's need - city traffic department, county, state, MPO or engineering service provider.

### Real Time Server-to-Server Virtual Device Replication

Copy, pair and match any device from another BlueTOAD Server to expand your BlueTOAD Network!

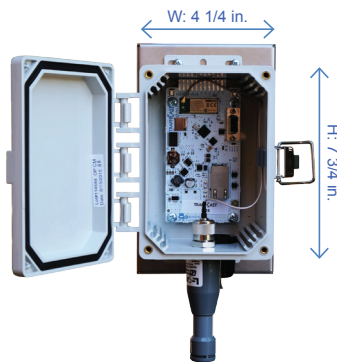


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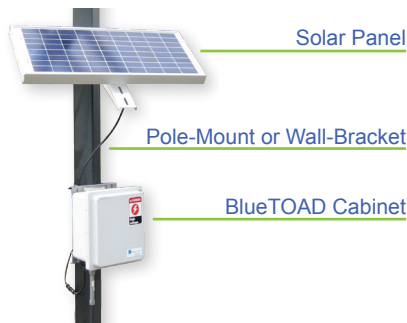
# BlueTOAD™

## Technical Specifications

### BlueTOAD Ethernet - Low-Profile



### BlueTOAD Cellular



#### 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

-40°C to +75°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

2 dBi Omni (Bluetooth Detector)

1 dBi Flat Patch Quad-band

##### NEMA 4 Enclosure

H: 12 in. x W: 10 in. x D: 7.75 in.

Weight (with battery & mounting brackets): 40 lbs.

#### BlueTOAD Ethernet

##### Power Specifications

DC Supply Voltage: Minimum - 6 VDC  
 Maximum - 40 VDC

DC Supply Current:  
 Maximum 80 mA @ 12 VDC

##### Power Source Options

##### Power over Ethernet (PoE)

IEEE 802.3af standard

110/220 VAC supply to injector

##### Operating Range

-40°C to +75°C

##### Processor

Real time microcontroller

##### Connectivity

POE - Ethernet 10BASE-T / 100BASE-T

Static or DHCP IP Addressing

##### Bluetooth

CSR Bluecore 4 Class 1

##### Antennae

2 dBi Omni (Bluetooth Detector)

##### NEMA 4 Enclosure

H: 7 3/4 in. x W: 4 1/4 in. x D: 4 in.

Weight (with mounting brackets):  
 3 lbs. 4 oz.

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

| 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                       |                   |                   |

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