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!
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
-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

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.