



Global Traffic Technologies

Opticom™ GPS System

The proven solution for
emergency vehicle preemption
and transit signal priority.

Agenda

- History – IR Opticom
- What is GPS Opticom
- Features, Advantages & Benefits
- Migration
- Analytics

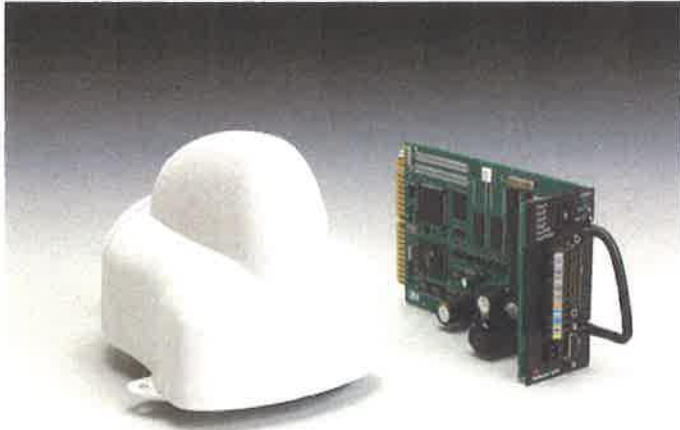


Opticom™ Infrared System



- 3M – Now GTT
- 40+ Yrs
- Has been the Standard
- 95% of ALL Signals
- Limited
- Viable
- Antiquated

Opticom™ GPS System



- 3M – Enhanced by GTT
- Not new – 8+ yrs
- Technology = exponential development
- Easily out powers and performs IR

Opticom™ GPS System

- Less Equipment/Better Equipment
- Consistent Communication between Vehicle and Intersection
- Much more Intuitive and Intelligent system
- Vehicles are tracked, ETA based Preemption
- Firmware Upgradable without equip. removal
- Data Gathering and Reporting

WHY GPS OPTICOM



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Opticom™ GPS System

- Key Piece – 764 Multimode Phase Selector
- All City PW and King County Spec 764
- Add GPS Receiver/Transponder to Intersection
- Add GPS Emitter to Vehicle

- Transit Authorities BRT – Spec/deploy
- City of Bellevue – City of Renton

MIGRATION to GPS OPTICOM

Opticom™ GPS System

- Central Management Software (CMS)
 - Monitor, Manage and Maintain from Data gathered from Phase Selector
- Vehicle Analytics
 - Monitor, Manage and Maintain from Data gathered from the GPS Opticom Vehicle Emitter
 - Monitor Vehicle response efficiencies
 - Monitor Intersection Health/deficiencies

ANALYTICS



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OPTICOM™ | GPS Platform



Proven technology with better results

Global Positioning System (GPS) technology and highly-secure radio communications power the Opticom GPS Platform – a robust, secure, Emergency Vehicle Preemption (EVP) solution from GTT.

Opticom GPS-enabled systems offer unmatched precision and superior management capabilities that will allow your department to respond quickly and safely to emergencies.

Built on more than 45 years of Opticom signal priority performance and reliability, the Opticom GPS platform helps ensure safer, faster on-scene arrival—while maximizing resources and your investment.

REDUCE
INTERSECTION
CRASH
RATES



PREVENT
INJURIES
AND
RELATED
COSTS



OPTICOM™
BENEFITS

IMPROVE
TRAVEL
TIMES
by up to
25%*



DECREASE
LIABILITY
FOR CRASHES
WITH OTHER
MOTORISTS



OFFER QUICK
PAYBACK
ON YOUR
INVESTMENT



COMMUNICATE

AROUND CORNERS
Send EVP requests around curves
and corners, over hills and overpasses



SOLUTIONS FOR:



Fire



Bus



Law Enforcement

GLOBAL TRAFFIC TECHNOLOGIES



*Independent studies available upon request.

When every second counts

The Opticom™ GPS platform brings together a combination of proven hardware, advanced software and comprehensive services to enable faster and safer on-scene arrivals for departments of any size.

The GPS-enabled platform uses powerful and precise algorithms to enable industry-leading Opticom EVP.

Join other public service agencies and use Opticom for more effective mutual aid strategies and to resolve critical traffic management challenges.

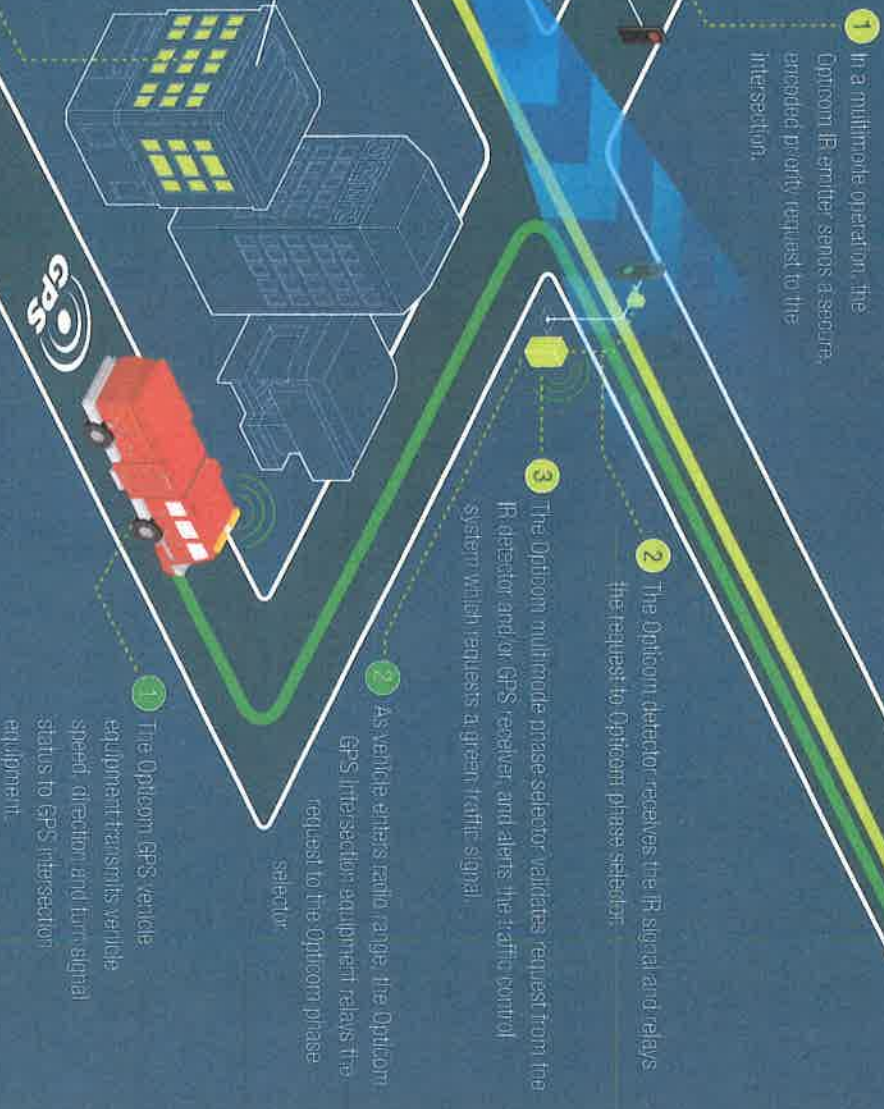
When combined with Opticom Central Management Software (CMS), the Opticom GPS platform provides the ability to monitor

and maintain system performance from a central location, including cloud-based analytics and reporting. Traffic managers can monitor and maintain system performance and update system software from anywhere Internet access is available.

Designed for interoperability, GPS-enabled components can communicate with Opticom IR components in a multimode system to allow for upgrades and mutual aid while maintaining emergency response and transit functionality.

Additional equipment and services can be added as an agency's needs evolve.

HOW IT WORKS



CMS
Opticom CMS can be used to update system configuration, collect data and generate reports.

1 In a multimode operation, the Opticom IR emitter sends a secure, encrypted priority request to the intersection.

2 The Opticom detector receives the IR signal and relays the request to Opticom phase selector.

3 The Opticom multimode phase-selector validates request from the IR detector and/or GPS receiver and alerts the traffic control system which requests a green traffic signal.

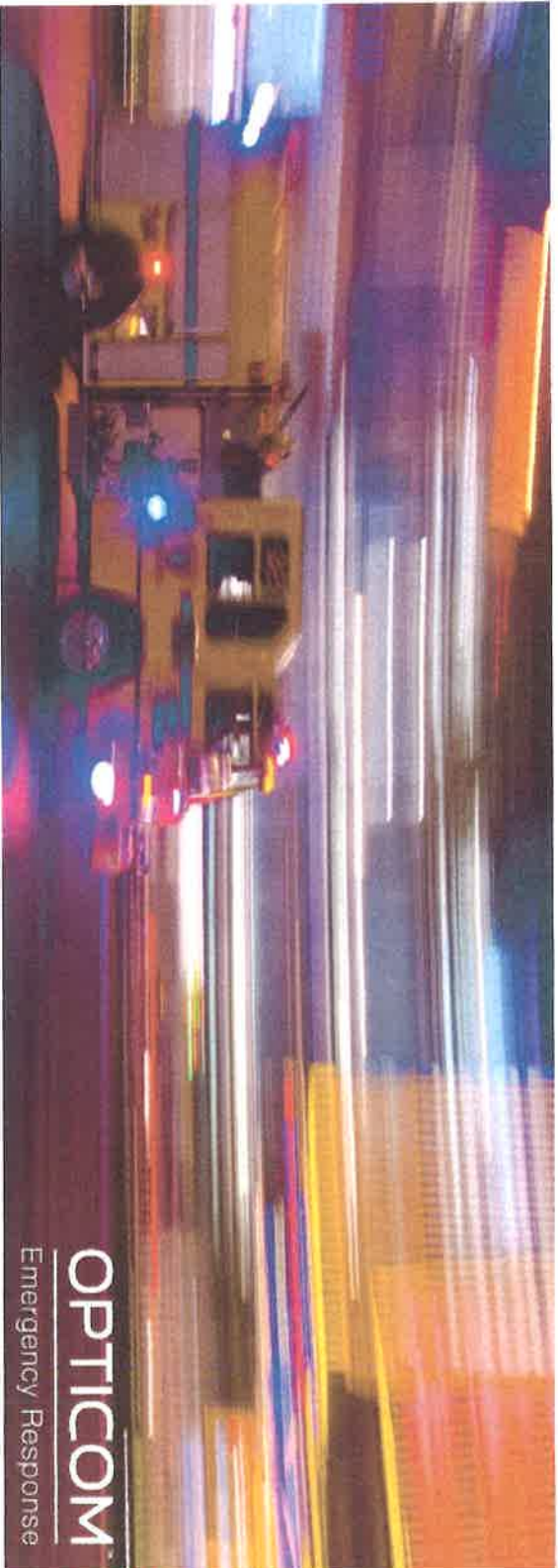
4 As vehicle enters traffic range, the Opticom GPS intersection equipment relays the request to the Opticom phase selector.

1 The Opticom GPS vehicle equipment transmits vehicle speed, direction and turn signal status to GPS intersection equipment.

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OPTICOM
Emergency Response

Exclusive 5&1 Offering

- Purchase (5) GPS Intersection Radio Units and GPS Installation Cable
- Receive (1) GPS Vehicle Kit FREE*

To take advantage of this limited-time offer, **orders must be completed by 12/31/17.**

*offer excludes current Opticom GPS customers.

GPS Migration made easy

Your agency's intersections are already equipped with Model 764 Multimode phase selectors. All you need now for superior, precise GPS-enabled preemption are GPS radio units and vehicle kits.

You want the safest, most reliable preemption for your community, but budgets can be tight. That's why GTT is offering an exclusive deal to get your agency on the path towards safe and reliable GPS-enabled preemption.

Get the most out of your system - and your investment. Speak with an Opticom representative to learn more about this exclusive offer.

Contact your Opticom Dealer Representative:
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