

# IntelliConnect

V2X / IoT

## End-to-end V2X traffic safety and mobility platform

Non-CV and CV Environment

A Solution built for:

- ▶ **Safety:** Reduce fatalities, injuries, and property damage
- ▶ **Mobility:** Improve roadway throughput and efficiency
- ▶ **Operational Excellence:** Greater visibility on the roadways for faster and better management of traffic operations
- ▶ **Environmental Responsibility:** Reduce fuel consumptions and emissions

Out-of-the-box Applications for Roadside and the TMCs

- ▶ Wrong-way driver warning
- ▶ Work zone warning
- ▶ Stopped/disabled vehicle warning
- ▶ Speed warning
- ▶ Curve speed warning at ramps
- ▶ Queue warning
- ▶ TIM weather warning
- ▶ ... and many more

### Designed to Leverage Legacy and Smart Infrastructure





# IntelliConnect Key Functionalities



## Scalable, Secure, and Reliable

- ✔ Uses enterprise-grade encryption
- ✔ Performs secure publishing and receiving of messages using industry standard security framework
- ✔ Auto-scales based on usage



## Custom Business Applications

- ✔ Out of the box safety and mobility applications
- ✔ Tolling and in-car payment applications
- ✔ Discovery of new use cases



## Intelligent Edge Computing

- ✔ Seamless connectivity to legacy devices and road side units
- ✔ Pre-process, filter and analyze Data at the Edge before sending it to the Cloud
- ✔ Performs dissection of connected vehicle messages with a Generic device driver
- ✔ Runs business rules engine for safety applications



## Intelligent Traffic Management

- ✔ Broadcast TIM (traveler information message) messages and real time safety alerts to pedestrians and drivers in non-connected and connected vehicles
- ✔ Near instantaneous detection of roadway incidents
- ✔ Centralized and remote configuration and management of all Road Side Equipment (RSE); Health Monitoring and analytics of all RSE for better support and maintenance
- ✔ Configure and customize various parameters related to business applications and easy integration with the traffic monitoring system



## Multiple Data Streams

- ✔ Connect to multiple data sources including legacy systems
- ✔ Supports data ingestion from data sources like sensors, roadside units, LiDARs, mobile devices, social media, cameras, third party API, and relational databases, etc.

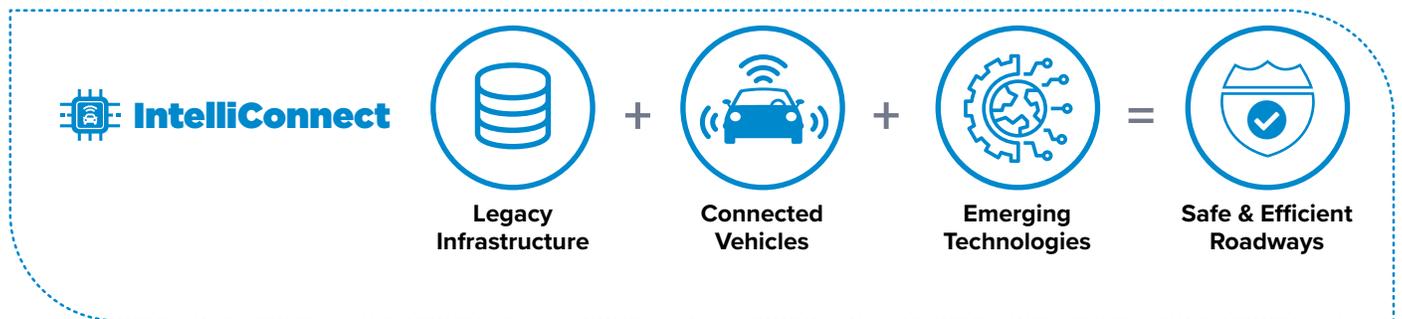


## Data Management

- ✔ Big Data Management (For Raw and Curated Layer)
- ✔ Data Governance and Authorization
- ✔ Open Ecosystem
- ✔ Third Party API Integration

## Vision Zero

Accelerating progress to vision zero through connected and managed roadways



## Pricing For GDOT

			Annual License per unit in USD	
	Main Module	Sub-Module/Features	Lite	Full
IntelliConnect Software - ITS Platform (V2X/IoT)	Central Management Software (CMS)	User and Role Management	X	X
		Device Management (includes MAP message generation tool - CV)	X	X
		Message Management (includes TIM generation tool for CV)	X	X
		Notification Management - SMS, Email. Charges apply for additional messages	5K/month	25K/month
		Event Monitoring - Map/List View	X	X
		Event Detection and Alert Management	X	X
		Third-Party API Access	X	X
		Report Management	Std	Std+10 adhoc reports
		Third-Party Event Detection Integration		X
		Active Directory Integration		
		Concurrent Users	15	100
		Max # of Roadside units - RSU, Sensors, Lidar, Camera, Edge devices. * Additional devices can be added with enterprise version	25	1000*
			<b>Total</b>	<b>\$135,000.00</b>
	<b>CV Module (Per each RSU)</b>	<b>\$1,300.00</b>	<b>\$1,300.00</b>	
	<b>Cloud Hosting (aprox pricing and will depend on scope)</b>	<b>\$35,000.00</b>	<b>\$50,000.00</b>	
		<b>One-time</b>	<b>One-time</b>	
	<b>Set-up</b>	<b>\$25,000.00</b>	<b>\$40,000.00</b>	
	<i>Use Cases and implementation will be done through software services pricing</i>			

Optional Software Items on page 2

**Optional Software Items - Depending on Scope and Requirements**

<b>IntelliConnect Edge Software (Per Device)</b>	Dashboard, Market place, Data Flow, IT integration, Events& Alerts, System utilities	<b>\$3,000.00</b>	<b>\$3,000.00</b>
<b>Edge Device Hardware (non GPU)</b>	One-time cost	<b>\$2,500.00</b>	<b>\$2,500.00</b>
<b>Devices Module s/w (Per Device)</b>			
	Radar, Bluetooth, Other	<b>\$850.00</b>	<b>\$850.00</b>
	Lidar **	<b>\$1,750.00</b>	<b>\$1,750.00</b>
** GPU based module required	** Perception software for Lidar	<b>\$7,000.00</b>	<b>\$7,000.00</b>
<b>Virtual Edge/Data Standardization (along with CMS)</b>	Per RSU	<b>\$1,500.00</b>	<b>\$1,500.00</b>
<b>Device Health Monitoring Solution (along with CMS)</b>		<b>\$15,000.00</b>	<b>\$25,000.00</b>
<b>Data Standardization Solution (along with CMS)</b>		<b>\$15,000.00</b>	<b>\$30,000.00</b>