

AI-500-065-02 Dual Mode DSRC / C-V2X Series Glance Preempt & Priority In-Vehicle Unit

Overview

The AI-500-065-02 Dual Mode DSRC / C-V2X series of controllers provides a cost-effective way of adding priority & preemption to your emergency and transit vehicles. The unit has a built in cellular, DSRC, GPS and 900MHz radio to make priority and preemption easy to configure and simple to set up. Future proof your connected vehicle applications by using both C-V2X and DSRC vehicle units. The unit monitors emergency signals, indicators, and the ignition switch to automatically request priority/preemption at the traffic intersections.

The unit comes standard with a built in Ethernet, Cellular Modem, DSRC radio, C-V2X radio, 900MHz radio, and GPS. All units come with multiple digital and analog IO to monitor the vehicle status, such as left/right turns, emergency lights, emergency brake, bus active, and more. The unit utilizes enhanced GPS module with dead reckoning. This allows the system to still track the vehicle even when the vehicle is in a tunnel or under an overpasses.

The unit works in conjunction with the Glance Platform, providing connectivity to the cloud-based Glance solution. Simply plug into your vehicle unit to add Glance priority and preemption as well as monitoring of location and situation of all your vehicles.

Features

- ✓ Low cost Internet connectivity solution
- ✓ Monitor emergency and transit vehicles in real time from a simple browser
- ✓ C-V2X, DSRC & 900MHz radio redundancy
- ✓ Perform priority check-in requests at any distance from the traffic controller with cell connection
- ✓ Remote firmware updates available
- ✓ Local data storage, supporting store and forward schemes when no connection
- ✓ Enhanced GPS with dead reckoning
- ✓ IO for local connections
- ✓ Easy to Install



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Hardware Specification



AI-500-065-02

Connectivity

Cell Modem	4G LTE, Firstnet ready
900MHz Radio	Yes
Ethernet Port (10/100Base-T)	Yes
Enhanced GPS with dead reckoning	Yes
DSRC	Auto-Talks
C-V2X	Qualcomm PC5
Bluetooth	Yes

Industrial I/O

Analog Inputs	4
Digital Inputs	6
Digital Outputs	2
USB Port	1

Miscellaneous

Operating Systems	Linux
In Service Light	Yes
Operating Temperature	-40°C to 80°C
Humidity	5-95% non-condensing
Dimensions	7.250" x 5.440" x 1.693"
Input Voltage	10-30v DC
Real Time Clock	Yes
Flash Disk	Yes
Battery Backed Memory	Yes

Also suitable for...

Bus and Light Rail Priority	Yes
Vehicle monitoring	Yes
Scheduling	Yes

** Custom configurations available for volume orders

