

AI-500-086 Series Glance Preempt & Priority Field Monitoring Unit

Overview

The AI-500-086 Glance Preempt & Priority FMU series of controllers provides a cost-effective, easy to integrate means of adding priority & preemption as well as monitoring traffic intersections status and health. The unit has a built in Cellular, GPS and 900MHz radio to make priority and preemption easy to configure and simple to set up. The 19-inch rack mounted device is capable of remotely switching NEMA 5-15 power outlets inside the ITS cabinets. It is designed for extreme temperature applications and has low power requirements, making it suitable for solar powered applications.

The unit comes standard with a built in Ethernet, Cellular Modem, GPS and 900MHz radio. All units come with multiple digital and analog IO as well as 8 relay contacts to trigger preemption commands to the traffic signal controllers. The unit is also capable of sending priority requests directly to the traffic controller using ethernet communications.

The unit works in conjunction with the Glance Platform, providing connectivity to the cloud-based Glance solution. Simply plug install into your traffic intersection to add Glance priority and preemption as well as monitoring to your traffic cabinets status and health.



Features

- ✓ Low cost Internet connectivity solution
- ✓ 19 inch rack mount 1 U high
- ✓ Priority and Preemption ready
- ✓ Remotely switchable outlets
- ✓ Compatible with Glance platform
- ✓ GPS enabled for self-locating
- ✓ Supports transit priority capable controllers to keep signals in coordination
- ✓ Redundant communications supporting both 900MHz radio and Cellular communication
- ✓ Simple to configure priority and preemption zone using map based configurator.
- ✓ Integral battery back-up for power fail reporting

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Hardware Specification



AI - 500-086

Connectivity

Cell Modem *	Yes
Wi-Fi	Optional
Ethernet Port (10/100Base-T)	Yes
900 MHz Radio	Yes
GPS	Yes

Industrial I/O

Analog Inputs	8 (4 as 120VAC/12-28VDC selectable, 4 as 12-28VDC only)
Digital Inputs	8 (4 as 120VAC/12-28VDC selectable, 4 as 12-28VDC only)
Digital Outputs	10 (2 as NO/NC Relay, 8 as 24VDC ground true)

Power

Outlets	NEMA 5-15 (4 x 120V, remotely switchable rated 15 amp total load)
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Miscellaneous

Operating Systems	μC/OS-II
Manual Preempt Selector	Yes
Operating Temperature	-40°C to 80°C
Humidity	5-95% non-condensing
Dimensions	17.5" W x 1.75" H x 7.5" D
Mounting	19 inch rack mount 1U
Input Voltage	120V AC
Real Time Clock	Yes
Flash Disk	Yes
Battery Backup	Yes

Also suitable for...

Intersection Monitoring	Yes
Scheduling	Yes

* Specify carrier at time of order

** Custom configurations available for volume orders

