AI-500-085 Series Glance Preempt & Priority Field Monitoring Unit

Overview

The AI-500-085 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 helath. The unit has a build 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 cabniets. It is designed for extreme temperature applications and has low power requirements, making it suitable for solar powered applications.

The unit comes standardard with a build in Ethernet, Cellular Modem, GPS and 900MHz radio. All units come with multiple digital and anlalog 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 priotiy and preemption zone using map based configurator.
- Integral battery back-up for power fail reporting

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Hardware Specification

	AI - 500-085
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)
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 Moniroting	Yes
Scheduling	Yes

* Specify carrier at time of order
** Custom configurations available
    for volume orders

AI-500-085-02 Series Glance Preempt & Priority

Overview

The AI-500-085 Glance Preempt & Priority Video Capable FMU series of controllers provides a cost-effective, easy to integrate means of adding priority & preemption, video streaming as well as monitoring traffic intersections status and health. The unit has a build in high speed 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 4 port Ethernet switch, 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.

Features

- Low cost Internet connectivity solution
- 19 inch rack mount 1 U high
- 4 Port Ethernet Swtich
- Remotely switchable outlets
- On demand wireless video streaming
- GPS enabled for self-locating

- Passthrough Communications
- Redundant communications supporting both 900MHz radio and Cellular communication
- Simple to configure priority and preemption zone using map based configurator.
- Integrated battery back-up for power fail reporting

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Hardware Specification

![applied INFORMATION logo]

	AI - 500-085
Connectivity	
Cell Modem	Yes, 4G LTE
Ethernet Ports	4 Ethernet Ports
900 MHz Radio	Yes
GPS	Yes
Connected Vehicles	Yes, Cellular & DSRC Ready
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 (2x 120V, remotely switchable rated 15 amp total load)
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

** Custom configurations available
for volume orders

AI-500-065 Series
Glance Preempt & Priority In-Vehicle Unit

Overview

The AI-500-065 Glance Preempt & Priority In-Vehicle series of controllers provides a cost-effective way of adding priority & preemption to your emergency and transit vehicles. The unit has a build in Cellular, GPS and 900MHz radio to make priority and preemption easy to configure and simple to set up. The in-vehicle unit monitors emergency signals, indicators and ignition switch to have the ability to automatically request priority/preemption at the traffic intersections.

The unit comes standardard with a build in Ethernet, Cellular Modem, GPS and 900MHz radio. All units come with multiple digital and anlalog IO to monitor the vehicle status. The unit has the option of adding an 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 install into your in-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
- ✔ Cellular & 900MHz radio redundancy
- ✔ Perform priority checkin requests at any distance from the traffic controller with Cell connection
- ✔ Low power consumption
- ✔ Local data storage, supporting store and forward schemes when no connection
- ✔ Enhanced GPS with dead reckoning and OBD-II interface for wheel revolutions
- ✔ Easy to Install

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Hardware Specification

applied
INFORMATION

	AI-500-065
Connectivity	
Cell Modem *	Yes
900MHz Radio	Yes
Ethernet Port (10/100Base-T)	Yes
GPS	Yes
Enhanced GPS with dead reckoning	Optional
Industrial I/O	
Analog Inputs	4
Digital Inputs	6
Digital Outputs	2
OBD-II interface comes with Enhanced GPS	Optional
Miscellaneous	
Operating Systems	µC/OS-II
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 AC or 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

* Specify carrier at time of order

** Custom configurations available
  for volume orders
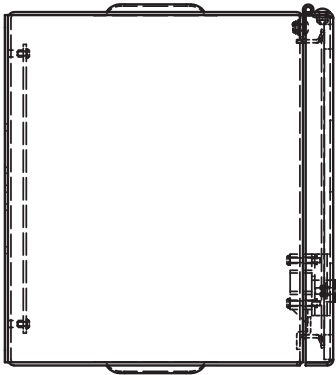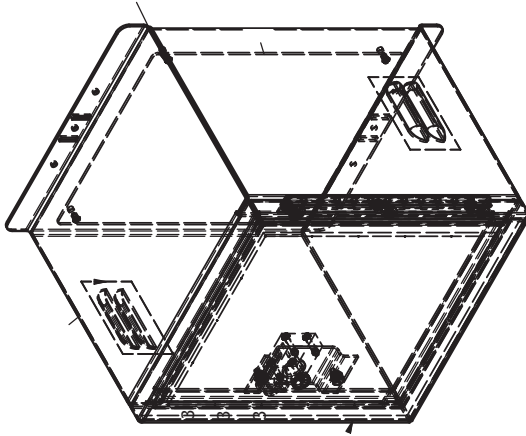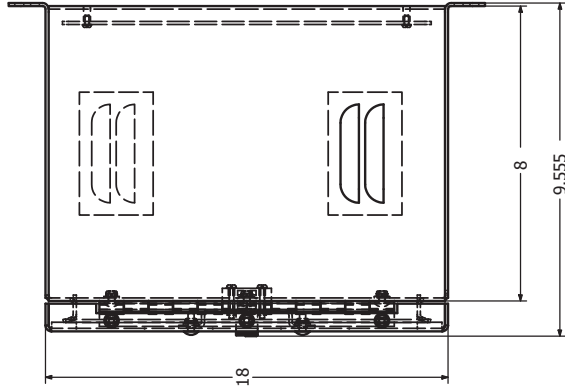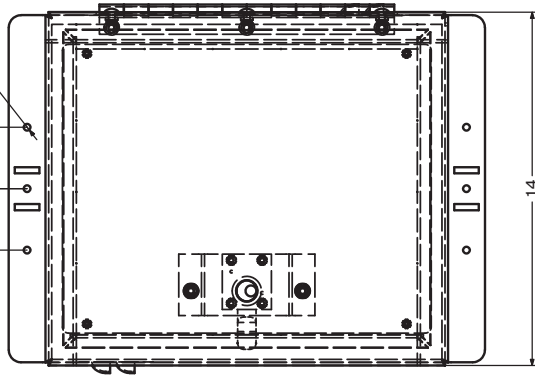
01	0001	PROTOTYPE RELEASE		6/7/2011	King
REV	ECN	DESCRIPTION		DATE	ENGINEER

REVISIONS

DIMENSIONS ARE IN INCHES.
UNLESS OTHERWISE SPECIFIED
TOLERANCES ARE:
FRACTIONS   DECIMALS   ANGLES
± 1/16   .XXX ± .015   ±1°
              .XX ± .5
              .X ± .6

BEND RADIUS
BEND DEDUCTION
BEND RADIUS
BEND DEDUCTION
MATL

DRAWN   King   6/7/2011
CHECKED   King
ENG
ENG MGR

TCSM181408A1253R2LC07RN000000S

DWG. NO. 1-050-XXXXXX

SIZE B   SCALE: 1:5   REV 01   SHEET 1 OF 1

3RD ANGLE PROJECTION

9.555
8
18

0.281
TYP-6
(2.5)
(2.5)
14

B

TEMPLE 336S (Stretch) Cabinet
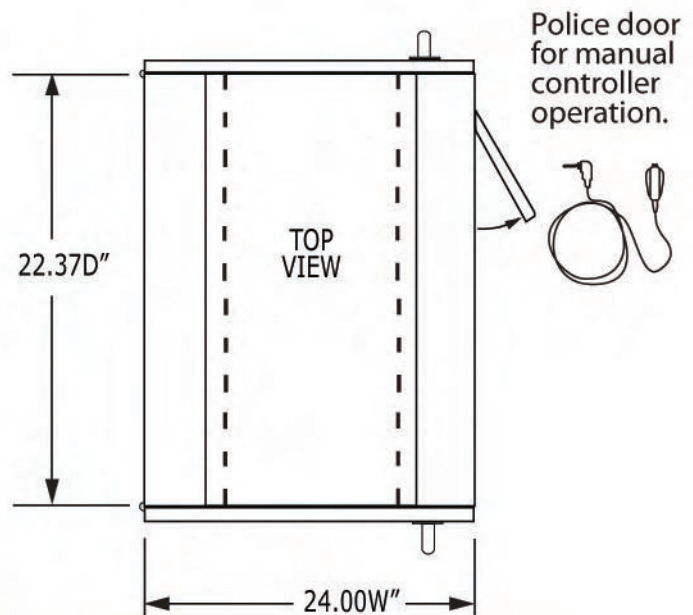## Enhanced performance for CalTrans Applications
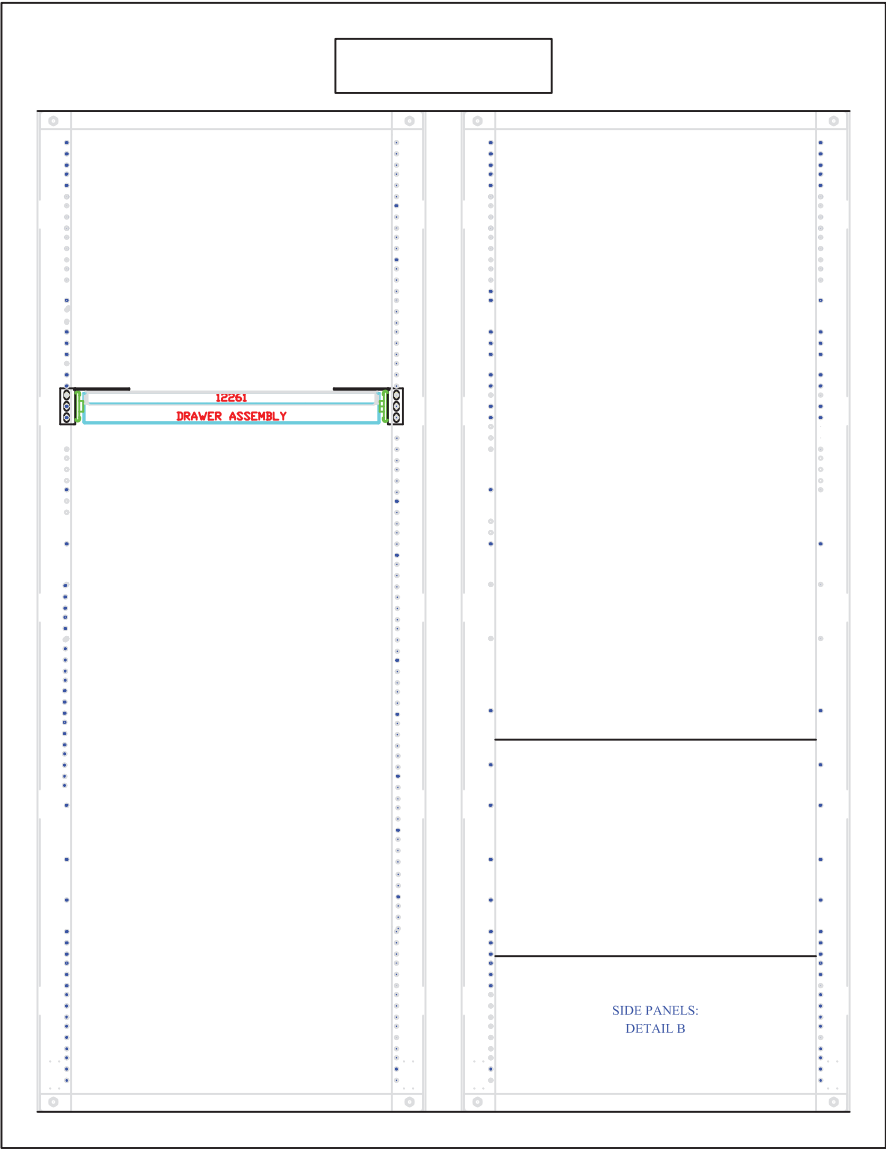
TEMPLE 336S Cabinet Dimensions:
46.25H" x 24W" x 22.37D"
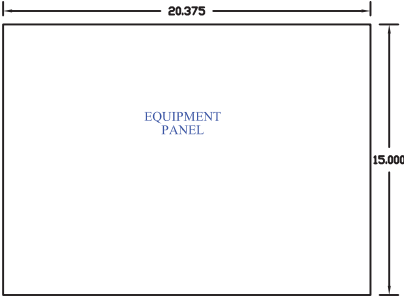
Performance Features

- Model 170/2070 Traffic Controller Cabinet
- 8 Phase, 4-Ped capabilities
- Meets CalTrans & FHWA Specifications
- 3-point door locking system
- Full-size front and rear doors
- Weather and pest-resistant vent design
- Pole and pad mounts available
- Pull out drawer with hinged top included
  (40 lb. capacity)

Police door for manual controller operation.

22.37D"

TOP VIEW

24.00W"

SLOW DOWN 25

Solutions→

SCHOOL SPEED LIMIT

20.375

EQUIPMENT
PANEL

15.000

DETAIL "B"
PANEL SIDE VIEW

12261
DRAWER ASSEMBLY

SIDE PANELS:
DETAIL B

SPECIFICATIONS:

HEIGHTS: 66.25
WIDTH: 44.5
DEPTH: 26"

FRONT VIEW