APPLIED INFORMATION

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AI-500-085-04 Field Monitoring Unit (Small Form Factor)

Overview

A cost-effective, easy-to-integrate means of adding advanced applications to traffic intersections. The solution offers preemption and priority capability, health status monitoring, remote communication and control, and connected vehicle applications. The AI-500-085-04, a small form factor field monitoring unit (FMU), is a multi-port system interface unit, equipped with multiple analog and digital IO, built-in 4-port Ethernet switch, GPS, 900MHz radio, and integrated high-speed modem communicating over the 4G LTE cellular network.

Exclusive connectivity to Glance, the cloud-based monitoring platform, allows for 24/7, real-time viewing of traffic signal controller operations. Glance enables the monitoring of system elements (such as voltage, battery backup, and cabinet flash), automatically generates health and status reports, and provides email or text alerts when a fault is detected in the field.

In addition, the AI-500-085-04 offers unique features, such as passthrough communication allowing for remote communication to the traffic signal controller and other IP-addressable devices in the traffic cabinet. This includes on-demand video streaming, access to the remote front panel and battery backup systems, integration with central systems, and more, where all communication can be routed over a secure VPN connection.

Features & Benefits

- Low-cost internet connectivity solution
- 4-Port Ethernet switch
- GPS enabled for self-locating
- Passthrough communication
- On-demand wireless video streaming
- Remote front panel (RFP) for cabinet devices
- Battery backup for power failure reporting
- Access to backup battery system (BBS)
- Preemption and priority capability
- Alarm alerts sent via text or email



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Hardware Specification

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AI-500-085-04

Connectivity

Cell Modem	4G LTE High Speed Modem
900MHz Radio	Yes
Ethernet	4-Port Ethernet Switch
GPS	Yes

Industrial I/O

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

Power

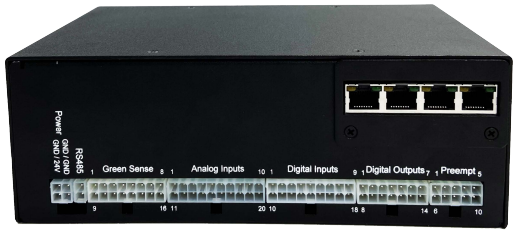
Power Consumption (Avg.)	3.75W

Miscellaneous

Operating Systems	µC/OS-II
Manual Preempt Selector	Yes
Operating Temperature	-40°C to 80°C
Humidity	5-95% non-condensing
Dimensions	8.5" x 5.5" x 3"
Input Voltage	24V DC
Battery Backup	Yes
Flash Disk	Yes







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