APPLIED INFORMATION

Turning data into information...

www.appinfoinc.com

AI-500-087
Optical Data Aggregator (ODA)

Overview

Applied Information's AI-500-087 Optical Data Aggregator (ODA) card modernizes optical-based preemption and priority infrastructure, providing enhanced tools for improved system operation. Working in tandem with Applied Information's AI-500-085-02 Field Monitoring Unit (FMU), the ODA bridges the gap between modern and legacy infrastructure, facilitating the transition towards a smarter, more reliable preemption and priority solution.

The Optical Data Aggregator card is designed to replace traditional phase selectors while integrating with existing optical detectors including Opticom™ and Tomar™. The ODA facilitates optical-based preemption calls, while the FMU enables cellular, GPS-based preemption. This configuration provides mutual aid capability across jurisdictions, ensuring support for vehicles with legacy emitters or new cellular-based on-board units.

Connectivity via the FMU provides access to the Glance® Platform enabling advanced monitoring, remote control, and comprehensive reporting capabilities. Key features include real-time system health metrics, four configurable preempt channels, and remote customization of vehicle class and IDs for improved emergency response and traffic infrastructure management. The introduction of remote monitoring, performance analysis, and diagnostic capabilities offers insights previously unavailable with legacy optical-based preemption systems.

Features & Benefits

- Integrates with preemption capable controllers
- Simple to install and retrofit
- "Over the air" updates
- Access to the Glance platform
- Enhanced reporting capability
- ODA card plugs into standard 4 Ch input file slot
- Compatible with Opticom™ and Tomar™ optical
- Supports either NEMA or Caltrans input files
- Four configurable pre-emption channels per intersection
- Remote reporting and monitoring of existing optical preemption



Call us today to get started at 678.830.2170 or email us at sales@appinfoinc.com

3000 Summit Pl, Suite 150, Alpharetta, GA 30009
678.830.2170 • appinfoinc.com • sales@appinfoinc.com

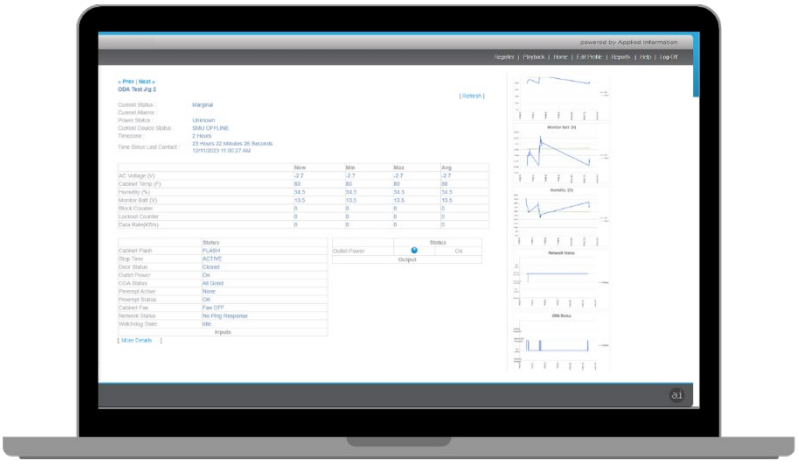
Hardware Specification

	AI-500-087 ODA
Connectivity	
Ethernet Port (10/100 Base-T)	Yes
Inputs/Outputs	
Preempt Outputs	4
Optical Detector Inputs	4
Miscellaneous	
Operating Systems	FreeRTOS
Input Voltage	10-30V DC/90-135V AC
Operating Temperature	-37°C to 74°C
Humidity	5-95% non-condensing
Dimensions	1U rack interface card
Power Consumption (Avg.)	7.5W









3000 Summit Pl, Suite 150, Alpharetta, GA 30009
678.830.2170 • appinfoinc.com • sales@appinfoinc.com