

# AI-500-050 Series FCMU Field Communications Monitoring Controller

## Overview

The AI-500-050 series of controllers provides a cost-effective, easy to integrate means of adding monitoring of communications and field I/O to any project. It is designed for extreme temperature applications and has low power requirements, making it suitable for solar powered applications. The unit comes in a variety of configurations supporting all common communication methods.

Several configurations are available with combinations of Ethernet, Wi-Fi, and Cellular Modem. All units come with multiple digital inputs and outputs as well as analog inputs. An RS-232 interface port is standard on the units, with additional RS-232/485 optional.

The unit works in conjunction with the Glance Platform, providing optional connectivity to the cloud-based Glance solution. Simply connect the I/O to add monitoring and control to your equipment. Also available are interfaces to field components via serial and Ethernet connectivity, using both standard and custom protocols.

## Features

- ✓ Low cost Internet connectivity solution
- ✓ Small form factor
- ✓ Variety of connectivity options
- ✓ Compatible with Glance platform
- ✓ GPS enabled for self-locating and mobile position tracking
- ✓ Low power consumption
- ✓ Local data storage, supporting store and forward schemes when offline
- ✓ Real Time Clock supporting scheduling applications
- ✓ Integral battery back-up for power fail reporting
- ✓ OBD-II Port for vehicle monitoring (optional)



Call us today to get started at [678.830.2170](tel:678.830.2170) or email us at [sales@appinfoinc.com](mailto:sales@appinfoinc.com)!

# Hardware Specification



|                                       | AI-500-050                                 | AI-500-051 |
|---------------------------------------|--|------------|
| <b>Connectivity</b>                   |  |            |
| <b>A</b> Cell Modem *                 | Yes  | No         |
| <b>B</b> Wi-Fi                        | Optional                                   | Optional   |
| <b>C</b> Ethernet Port (10/100Base-T) | Yes  | Yes        |
| <b>D</b> RS-232 Port                  | Yes  | Yes        |
| <b>E</b> RS-485 Port or RS-232 Port   | Optional                                   | Optional   |
| <b>Industrial I/O</b>                 |  |            |
| <b>F</b> Analog Inputs                | 8 (4 x 120V AC, 4 x 24V DC)                |            |
| <b>G</b> Digital Inputs               | 8 (4 x 120V AC, 4 x 24V DC)                |            |
| <b>H</b> Digital Outputs              | 4 (2 x NO/NC 2A Relay, 2 x Open Collector) |            |
| <b>I</b> OBD-II interface             | Optional                                   |            |
| <b>Miscellaneous</b>                  |  |            |
| Operating Systems                     | µC/OS-II                                   |            |
| <b>J</b> GPS                          | Yes  | No         |
| Operating Temperature                 | -40°C to 80°C                              |            |
| Humidity                              | 5-95% non-condensing                       |            |
| Dimensions                            | 5.2" x 5.2" x 2.4"                         |            |
| <b>K</b> Input Voltage                | 10-30v AC or DC                            |            |
| Real Time Clock                       | Yes  |            |
| Flash Disk                            | Yes  |            |
| <b>L</b> Battery Backed Memory        | Yes  |            |
| <b>Also suitable for...</b>           |  |            |
| Solar/battery powered                 | Yes  |            |
| Vehicle monitoring                    | Yes  |            |
| Scheduling                            | Yes  |            |

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

