APPLIED® INFORMATION



AI-500-052
Remote Network Unit

OVERVIEW

The Applied Information AI-500-052 Remote Network Unit (RNU) is a cost-effective and versatile solution for remote communication, system control, and monitoring. The RNU serves as the central hub for multiple intelligent transportation applications, including traffic intersections, flood detection and warning systems, over-height detection, uninterrupted power supply (UPS) monitoring, radar systems, and more.

Equipped with five Ethernet ports, a high-speed 4G LTE cellular modem, GPS functionality, and multiple digital and analog I/O options, the RNU enables seamless integration with various systems. It provides secure data transmission with the ability for VPN passthrough communications over Ethernet, where cellular connectivity provides exclusive access to the Glance® cloud platform for real-time monitoring, control, and on-demand video streaming.

The RNU's robust connectivity and advanced capabilities enhance situational awareness, improve system reliability, and streamline data collection and transmission, making it a powerful component in smart city infrastructure. Designed for extreme temperature environments and low-power applications, the RNU provides consistent performance in varying weather conditions while maintaining energy efficiency.

FEATURES AND BENEFITS

- Low-cost internet connectivity solution
- Five Ethernet ports
- Works with Glance
- Email and text alerts of system faults
- On demand video streaming capabilities
- GPS enabled for self-locating
- Secure VPN passthrough communications
- Monitor and control equipment remotely
- Integral battery back-up for power failure reporting

HARDWARE SPECIFICATION

AI-500-052	
Connectivity	
Cellular Connectivity	Yes
Ethernet Ports	5
GPS	Yes
OTA Software Updates	Yes

Power	
Input Voltage	10–30 V DC
Power Consumption (Avg.)	3 W

Industrial I/O	
Analog Inputs (0–30 V)	1
Analog Inputs (0–280 V)	1
Internal Temperature Sensor	Yes
*Additional I/O Provided via extender cards	

Miscellaneous	
Video Streaming	On Demand
Non-Volatile Memory	Yes
Operating Temperature	-40°C to 80°C
Humidity	5–95% non-condensing
Dimensions	5" x 3" x 2.5"
Real-Time Clock	Yes
Flash Disk	Yes
Schedule Control	Yes
High Speed Modem	Yes
VPN / Passthrough Communications	Yes

WORKS WITH glance™



3000 Summit Pl, Suite 150, Alpharetta, GA 30009 • 678-830-2170 • appinfoinc.com • sales@appinfoinc.com
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