

# Long-Range RFID

## Ultra Long Range, Hands-Free Readers

RFID solutions for Vehicle, Asset and Personnel Tracking

AAID™ Long Range RFID Readers communicate with access control systems in standard 26 or 32 bit Wiegand formats, or via serial RS-232 or RS-485 protocols. Range adjustable antennas can be discretely hidden to identify and track tag activity.

The AA-R500 is the smallest Long Range RFID Reader available today!

### Main Features

- Simultaneous multiple active tag read capability. Up to 254 serial readers can be linked via CAT 5 cabling
- Both Omni-Directional and Directional antennas are available
- Wiegand, Serial or Ethernet LAN protocols
- Small, lightweight, with low power draw
- AutoLocate™ Dynamic Tag Tracking
- Adjustable Tag read range .5 to 600 feet with standard antennas
- Secure Encrypted Transmission between tags and readers
- Sensitivity adjustments are programmable via PC

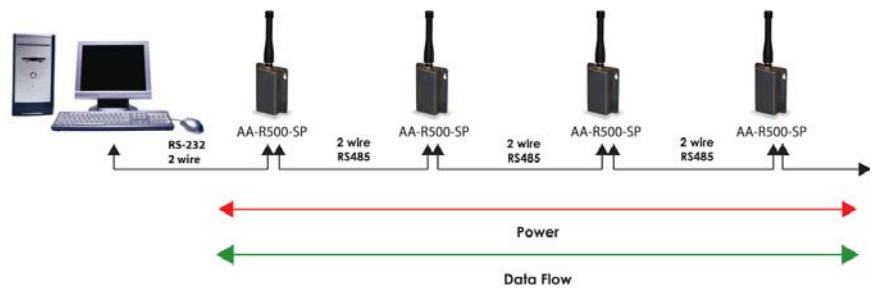


Shown below is a four zone vehicle lot protected by AAID readers and tags.

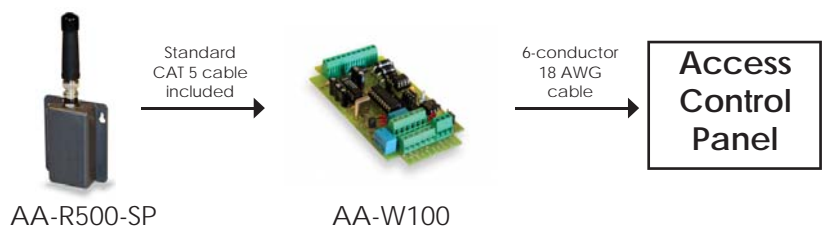
The read zones show the extreme distance that can be monitored with an AAID system. One of the most dynamic features of AAID products is that readers do not interfere with other readers if their zones overlap.



### Basic Serial Configuration



### Basic Wiegand Configuration



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## Specifications

### Rx Frequency

433.92 MHz

### Power

12.5VDV - 14.5VDC, ±30mA

### Operational Temperature

-40 °F to +158 °F

### Storage Temperature

-40 °F to +158 °F

### Humidity

5% to 90% (non-condensing)

### AA-R500-SP/AA-R500-WP Physical

Size 84mm x 40mm x 19mm

Weight 45 grams

Color Dark Grey

### AA-R300 Physical

Size 32mm x 33mm x 14mm

Weight Approximately 14 grams

Color Dark Grey

### AA-R400 Physical

Size 81mm x 57mm x 20mm

Weight Approximately 72 grams

Color Ice Blue

### Wiegand Interface Physical

(included with AA-R500-WP purchase)

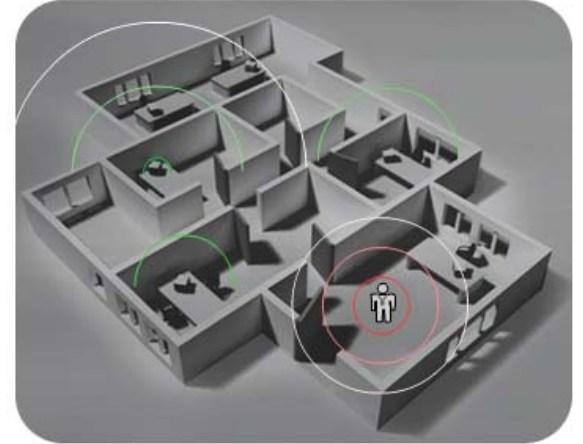
Size 110mm x 60mm x 25mm

Weight Approximately 113 grams

Color Dark Grey

AutoAccess tags and readers provide an accurate, real-time and dynamic means to detect, track, control, and monitor assets, vehicles, and personnel. This technology can be applied to operations and processes in all types of industries.

### Zone Control RFID Tracking in an office environment



## Parts and Ordering Information

AAID Ultra Long Range Readers	
AA-R500-SP	Serial (RS-232/485) Long Range Reader - PC Software Adjustable Range (3' to 600') * All initial reader orders should include AA-CUSC kit
AA-R500-WP	Wiegand (26 bit or 32 bit) Long Range Reader (includes AA-W100 intercease) - PC Software Adjustable Range (3' to 600') * All initial reader orders should include AA-CUSC kit
AA-R300-S	Custom Adjustable Range Serial Reader for Psion Teklogix Workabout Pro Hand-Held Computer
AA-R400-U	PC USB Port Medium Range Reader for Hand-Held Computers and Special Applications
AA-R500 Reader Programming Kit	
AA-CUSC	Range Programming Software and Cable Kit for AA-R500SP & AA-R500WP Readers
Contact sales to discuss antenna options	