

# Long Range Proximity Reader & Active Tag (311MHz)



RF500



IDA500

## Key Features

### RF500

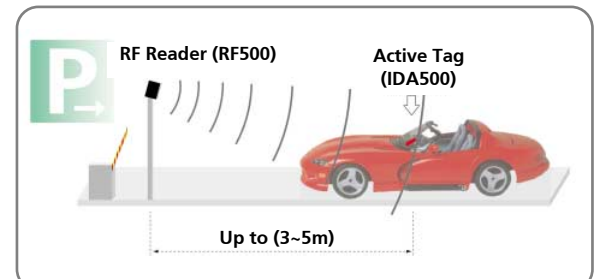
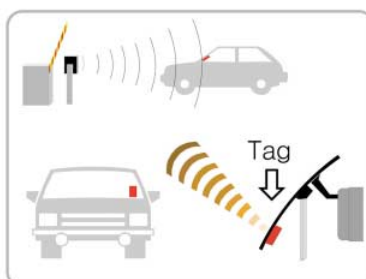
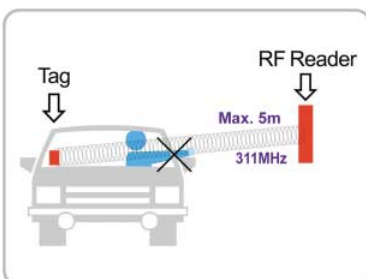
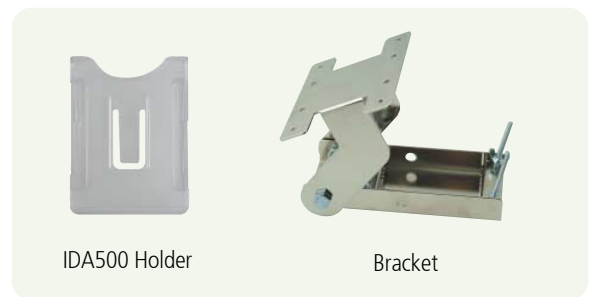
- Long Range (5m) Reader and Tags
- Up to 5m Read Range (3~5m adjustable)
- Encrypted tag ID and secure protocols between Reader and Tags
- Multiple Tags Identification (10 tags/sec)
- Omni-directional Helical Antenna
- Wiegand + RS232 outputs, ABA Track II (Optional)
- Optional addressable RS485 outputs
- Two Color LED (Red, Green) Indicator
- Built-in Beeper sound
- External Reader Address Setting (8ch)
- Direct bargate control by beeper output (250ms open collector)

### IDA500

- Long range proximity card  
Up to 3~5M read range with RF500
- User format ID number encoding available
- Various formats available
- Low Battery signal transmit (only available with RS232 output)
- Programmable sleep timer for One-time reading
- Programmable Toggle-mode setting for In/Out control by one reader
- Battery life time (3~5 years)



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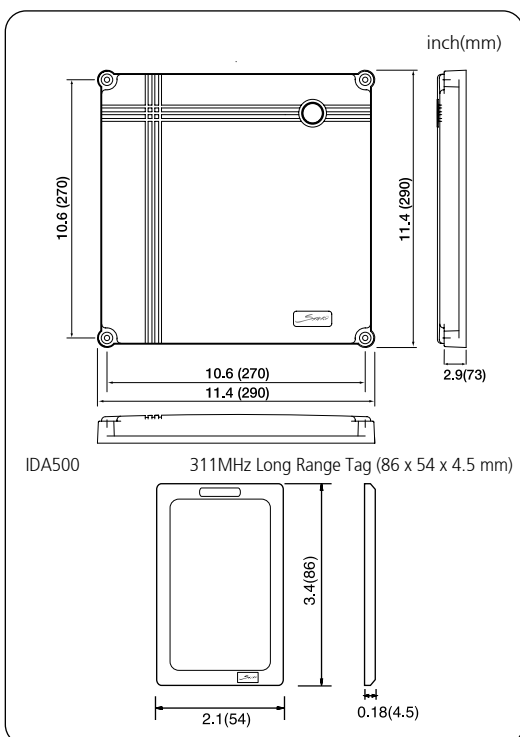




### Specifications (RF500)

CPU	Dual 8bit microprocessor
Read Range	Up to 5m, 3m~5m adjustable
Carrier Frequency	311MHz
Directivity	Omni-directional
Antenna	1/16 wavelength Helical Antenna
Modulation	Transmit : Coded-ASK, Receiving: Super Heterodyne
Transmit Power	Less than 500uV/m
Receiver Gain	Better than -100dBm
Multiple Reading	10 tags per second
Output Format	Wiegand, ABA Track II, RS232 selectable Optional addressable RS422/RS485 output
Inputs	External LED control input, Beeper control input
LED Indicators	Two color LED (Red, Green)
Beeper Sound	Built-in Piezo Buzzer
Power	DC12V, Max. 400mA
Operating Environment	-35°C ~ +65°C (-31°F ~ 149°F), 10%~90% RH (Non-Condensing)
Reset	Watch-dog reset and Power-on reset
Color	Dark Gray
Weight	1.32 Kg (2.91 lbs)

### Dimensions



### Specifications (IDA500)

CPU	Low power 8bit microprocessor
Read Range	Up to 5m
Carrier Frequency	311MHz
Directivity	Omni-directional
Antenna	Built-in Helical Antenna
Modulation	Transmit: Coded-FSK, Receiving: Coded-ASK
Transmit Power	Less than 500uV/m
Receiver Gain	Better than -100dBm
Wake-up Time	250ms
Sleep Time	Programmable up to 256 min.
Tag ID numbers	Maximum 16 millions ID numbers per site code
Encryption	16bit IDTECK's secured algorithm
Power	Built-in 3V Lithium Battery
Battery Life Time	3 Years (10 times reading/day)
Operating Environment	-20°C ~ +65°C (-4°F~149°F), 10~90% RH(Non-condensing)
Weight	22g

### Ordering Information

Part number	Description
RF500	311MHz Long Range Reader
IDA500	311MHz Long Range Tag (86 x 54 x 4.5 mm)
IDA500 Holder	Card Holder for IDA500