



## 433.92 MHz Active RFID Tags & Readers



### Model AT-CS (Clamshell)

Slotted Punch used as Personnel Badge

Low Battery LED

Replaceable Battery



### Model AT-MM (Metal Mount)

Mounting Holes

Mount Direct to Metal

Replaceable Battery



### Model AT-DC (Deck of Cards)

Fully Potted – Weatherproof

Mounting Holes

NO Replaceable Battery



### Model AT-OM (Omni-Directional)

Whip Antenna Provides 360° Orientation

Fully Potted – Weatherproof

NO Replaceable Battery

ActiveRFID from RFID, Inc. is now available with:  
Replaceable Batteries  
Accelerometer (Motion Detection)  
External Power Wiring option (shown below)



Part Numbers:

### Battery Replacement Kit

719-0300-30

### Model AT-CS Tag

800-0224-01

800-0224-01-AU (Auto-Tune Tag)

800-0224-01-ACL (Motion Detection)

800-0224-01-EXPW (Ext Pwr Wires)

### Model AT-MM Tag

800-0225-01

800-0225-01-AU (Auto-Tune Tag)

800-0225-01-ACL (Motion Detection)

800-0225-01-EXPW (Ext Pwr Wires)

### Model AT-DC Tag

800-0226-01

800-0226-01-AU (Auto-Tune Tag)

800-0226-01-ACL (Motion Detection)

800-0226-01-EXPW (Ext Pwr Wires)

### Model AT-OM Tag

800-0235-00

800-0235-00-AU (Auto-Tune Tag)

800-0235-00-ACL (Motion Detection)

800-0235-00-EXPW (Ext Pwr Wires)





## 433.92 MHz Active RFID Tags & Readers

### Model AT-CS (Clamshell)

Dimensions: 3.375 x 2.125 x .25 inches  
 Weight: 2 ounces / 57 grams  
 Color: Putty White  
 Housing: Sealed ABS, IP65  
 Low Battery LED + Flag Bits Transmitted in Tag Data  
 Replaceable Battery



### Model AT-DC (Deck of Cards)

Dimensions: 4.0 x 2.12 x .54 inches  
 Weight: 4 ounces / 113 grams  
 Color: Black  
 Housing: Rynite, Potted IP68  
 Low Battery LED + Flag Bits Transmitted in Tag Data  
 NO Replaceable Battery



### Model AT-MM (Metal Mount)

Dimensions: 3.0 x 2.0 x 1.0 inches  
 Weight: 4 ounces / 113 grams  
 Color: Black  
 Housing: ABS, Metal Spacing  
 Low Battery LED + Flag Bits Transmitted in Tag Data  
 Replaceable Battery



### Model AT-OM (Omni-Directional)

Whip Antenna Provides 360° Orientation  
 Dimensions: 2.0 x 1.75 x 1.0 inches w/o 1.5" Antenna  
 Weight: 1.3 ounces / 37 grams  
 Color: Black  
 Housing: Rynite, IP68  
 Low Battery LED + Flag Bits Transmitted in Tag Data  
 NO Replaceable Battery



<b>Power Supply</b>	3V Battery
<b>Tx Frequency</b>	433.92 MHz
<b>Output Power</b>	1 mW Default, 10 mW Max
<b>Transmission Range</b>	3' to 2000' (Environment Dependent)
<b>Transmission Rate</b>	2.01 Seconds
<b>Transmission Time</b>	590 Microseconds
<b>Battery Life</b>	2.5 Years Warranted
<b>Operational Temperature</b>	-40°F to +185°F / -40°C to +85°C
<b>Humidity</b>	5% to 90%
<b>Material</b>	UV Stabilized ABS (IP65 to IP68)
<b>Approvals</b>	FCC Certification YVUtres433 / RoHS
<b>Extras</b>	Anti-Collision / Motion Detector (Accelerometer) / RSSI





## 433.92 MHz Active RFID Tags & Readers



# Reader

Model ATR-RW	:	Reader Wiegand w/USB
Model ATR-RS	:	Reader Serial w/USB
Model ATR-RE	:	Reader Ethernet w/USB
Model ATR-RMRTU	:	Reader Modbus RTU w/USB

### Standard Features Include

- 3' to 60' Read Range with Internal Etched Antenna (Omni-Directional)
- 600' Read Range w/External Directional Antenna (next page)
- 2000' Read Range Options Available
- Automatic Range Tuning via Dipswitch or Software Command
- RSSI (Relative Signal Strength Indicator)
- Low Battery Indicator Transmitted with Tag Data
- Read 1 Tag at a Time or all Tags at Once
- Programmable via USB Port
- LED Indicators for Power, Transmit & Receive
- NEMA IP67 Enclosure
- Input - Loop Detector (can also be used as general electrical Input)
- Output - Piezo (audible beep) with On/Off Capabilities (can also be used as general electrical Output)]
- Relay – NO Relay Adjustable to 99 seconds

Model Number	Part Number	Description
ATR-RW	800-0230-30	Wiegand 26 bit Wiegand Reader with Internal Antenna
ATR-RW/PJ	800-0230-31/PJ	26 bit Wiegand Reader w/Internal Antenna w/Quick Connect Power Jack
ATR-RS	800-0231-30	Serial, Reader w/Internal Antenna
ATR-RS/9	800-0231-31/9	Serial Reader w/Internal Antenna w/9 Pin Serial Connector
ATR-RS/PJ	800-0231-32/PJ	Serial Reader w/Internal Antenna w/Quick Connect Power Jack
ATR-RS/PJ9	800-0231-33/PJ9	Serial Reader w/Internal Antenna w/Quick Connect Power Jack & 9 pin Serial Conn
ATR-RMRTU/PJ9	800-0231-34/PJ9-RTU	Modbus RTU Reader w/Internal Antenna w/Quick Conn Pwr Jack & 9 Pin Serial Conn
ATR-RE	800-0232-30	TCPIP Ethernet Reader w/Internal Antenna w/RJ45 Connector
ATR-RE/PJ	800-0232-31/PJ	TCPIP Ethernet Reader w/Internal Antenna w/Quick Connect Power Jack & RJ45 Conn
PS12PJ	720-0004-01	AC Power Supply w/Quick Connect Jack, 12VDC, 500mA



## 433.92 MHz Active RFID Tags & Readers

### External Antennas

Model ANT-CP (Circular Polarized)

Model ANT-LR (Linear Polarized)

Model ANT-YG (Yagi)



### External Directional Antennas Offer Greater Ranges

ANT-CP = 300' (8dBi)

ANT-LR = 600' (9 dBi)

EXY-LG = up to 2000' (8 to 14 dBi options)

#### Mounting Kit

Included

#### Sensitivity & Bandwidth

-95 dBm Max / 541 kHz

#### Power & Impedance

6W (Max) / 50 ohms

#### Beamwidth

70 degrees Azimuth, 68 degrees Elevation,

#### Housing of ANT-CP/LR

370mm x 370mm x 40mm

#### Material of ANT-CP/LR

Frontal Housing - UV Stabilized ABS (IP67) Base Plate - Aluminum

#### Operational Temperature

-40°F to +185°F / -40°C to +85°C

#### Weight & Certifications

2.0 kg / RoHS & CE 0682

#### Part Numbers

ANT-CP-12 (12' of cabling)

800-0232-12

ANT-CP-25 (25' of cabling)

800-0232-25

EXY-SM (Small Yagi Antenna)

719-0071-00 (8dBi)

EXY-MD (Medium Yagi Antenna)

719-0071-00-MD (12dBi)

EXY-LG (Large Yagi Antenna)

719-0071-00-LG (14dBi)

### Model ATR-3036E Hand Held Reader & Reader Tuner



Hand Held Reader or Tuner Accessory for ATR Readers

As Tuner, Acts as Mobile Interface, Links to Reader USB Port

Unique "Find a Tag" Mode That Acts Like Geiger Counter

Self Operating, no OS to Maintain 10 Hour Battery Life

Part Number 800-0024-30 AC Power Supply/Charger Included