



Active RFID Solution

RFID Smart Buy is a company specializing in Bar Coding and RFID technologies.

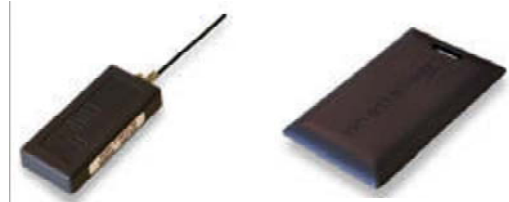
As an RFID technology provider, we provide a complete line of Passive Low Frequency (134.2KHz), Passive High Frequency (13.56MHz), Passive Ultra High Frequency (UHF 860-956 MHz) and Active technologies. RFID Smart Buy in association with R. Moroz Ltd. is a distributor for Texas Instruments RFID, FEIG Electronics and Bancolini. We also represent numerous other manufacturers in the AIDC (Automatic Identification Data Capture) industry.

As a distributor, we are able to supply all hardware components required, such as transponders, readers, antennas and portable hand-held readers. We also supply other components and expertise to develop customized readers and antennas.

As a full solutions provider, our services include design, development, customization, implementation, installation, training and support of any RFID system.

“T” Series - TRANSPONDERS (TAGS)

The Long Range transponders are ideal for identification of assets such as vehicles, containers and computers and also permit hands-free employee access control. A Tag to reader communication is secure and prevents Tag cloning, copying or emulation, making it ideal for high security applications. Tags employ an anti-collision algorithm that allows multiple tags to simultaneously communicate with a single reader.



Tags can either be Read only or Read/Write and all come with the *AutoLocate™* feature, which detects if a tagged item has been hidden in a metal container, making hard to remove unauthorized assets. The *TamperDetect™* Tags have a built-in sensor that can instantly detect if a Tag has been removed from item by automatically transmitting to a security system, which can then trigger an alarm.

All Tags are sealed and have a IP65 rating, they are powered by an internal Lithium battery and can operate continuously for more than five years. The battery status can be transmitted to the reader every time a Tag is read. The T-Tags are available in three sizes with various mounting options available and tags can be read by fixed or portable readers from 15cm to 137m away at a speed of up to 480 K/hr.

SPECIFICATIONS:

| | | |
|-------------------|---|--|
| Environmental | Operating temperature | -40°C to 60°C |
| | Storage temperature | -40°C to 60°C |
| | Humidity | 5% to 90% (non-condensing) |
| | <i>Custom packaging available for use in harsh environments</i> | |
| Physical | Size | T-100 Covert Tag: 6.1cm x 3cm x 1cm T-200 Windshield/Personnel: Tag 8.6cm x 5.3 cm x .5cm |
| | Weight | 15 g |
| | Color | Dark Grey |
| | Casing | Ultrasonically sealed PVC – IP 65 rating |
| RF Specifications | Frequency | 433.92 MHz |
| | Output Power | 300 micro watts |
| Range | T100 Covert Tag with External Antenna and AutoLocate™ | up to 137m |
| | T200 Windshield/Personnel Tag with AutoLocate™ | up to 137m |
| | T310 TamperDetect Covert Tag with AutoLocate™ | up to 137m |
| | T320 TamperDetect Windshield Tag with AutoLocate™ | up to 137m |
| | T380 TamperDetect - Mount on Metal Tag with AutoLocate™ | up to 76.2m |
| | T800 Mount on Metal Tag with AutoLocate™ | up to 76.2m |

R500 - LONG-RANGE READERS



The R500 series of Long-Range Readers communicate with the T series of tags and are specifically designed for hands-free operation.

The R500 readers provide the coverage required for tracking of vehicles, assets, inventory and people and can be used to trigger an alarm.

The R500 series are available with serial RS-232 , RS-485 or 26 bit Wiegand interface and can operate on an Ethernet LAN/WAN Network.

The R500 readers can simultaneously read multiple T Tags at a range of up to 137m and can detect the movement, including the disappearance, of tags. Read distance can be controlled by the application.

SPECIFICATIONS:

| | | |
|-------------------|-------------------------|--|
| Environmental | | |
| | Operating temperature | -40°C to 45.5°C |
| | Storage temperature | -40°C to 70°C |
| | Humidity | 5% to 90% (non-condensing) |
| Physical | | |
| | Size | 8.5cm x 4.1cm x 1.8cm |
| | Weight | 45 g |
| | Color | Dark Grey |
| | Casing | Ultrasonically sealed PVC – IP 65 rating |
| | Input/Output Connectors | Two RJ45 Sockets for CAT 5 cable |
| RF Specifications | | |
| | Frequency | 433.92 MHz |
| | ERP | 500 micro watts |
| Electrical | | |
| | Power requirement | 12 – 14 Vdc, +30mA |

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