



SeRFNet

Dynasys Sensor RF Network SeRFNet

Active RFID Tag/Sensor

The SeRFNet tags are part of the SeRFNet System used for tracking tagged items. In addition, the tag can monitor, collect, and report an item's condition via optional sensor inputs. Two package options are available, a small standard Tag and a High-Capacity Tag that includes multiple sensor connectors and higher capacity batteries to power multiple sensors. Designed for demanding military applications, these are the market's most rugged RFID sensor tags.

Operational:

- FCC: 2394 - 2507 MHz ISM Band
- 250 Ft. Open Field range with internal Antenna
- Mount-On-Metal (MOM)
- 5 Year Battery Life, 0.9 Ahr for the small tag and 34 Ahr for the large tag.

Network Protocol:

- Dynasys Modified SimpliCI for Military applications or
- Zigbee option
- 64 bit ID

Communication Interface:

- Standard: RS-232 serial option

Environmental:

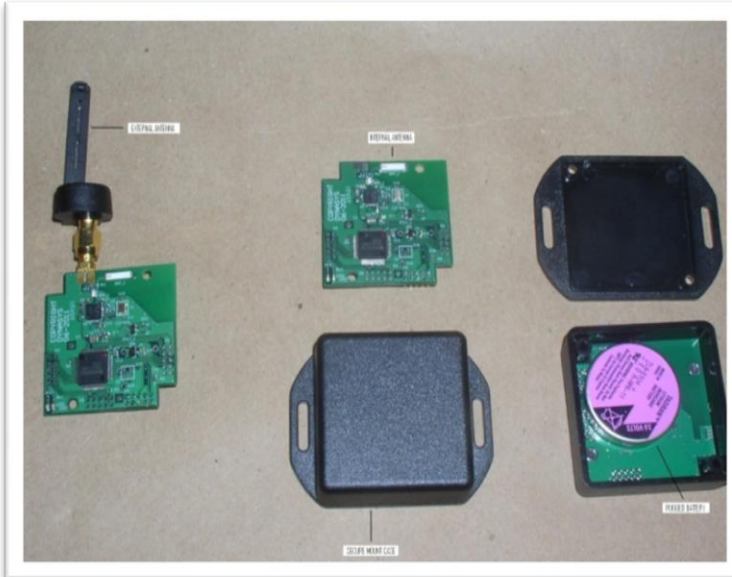
- Operating Temperature: -40°C to 105°C
- Humidity: 10% to 95% relative humidity, non-condensing
- IP-54, Sealed to resist spray of water and/or disinfectants

RFID Tags Physical Specs. :

- Small Size: 2.61 X 1.97 X 0.79 in
Weight: 2.5 oz.
1/10th D size, 0.9 Ahr Battery
- Large Size: 7 X 3 X 1.9 in
Weight: 1.1 lbs.
2 D-size, 34 Ahr Batteries

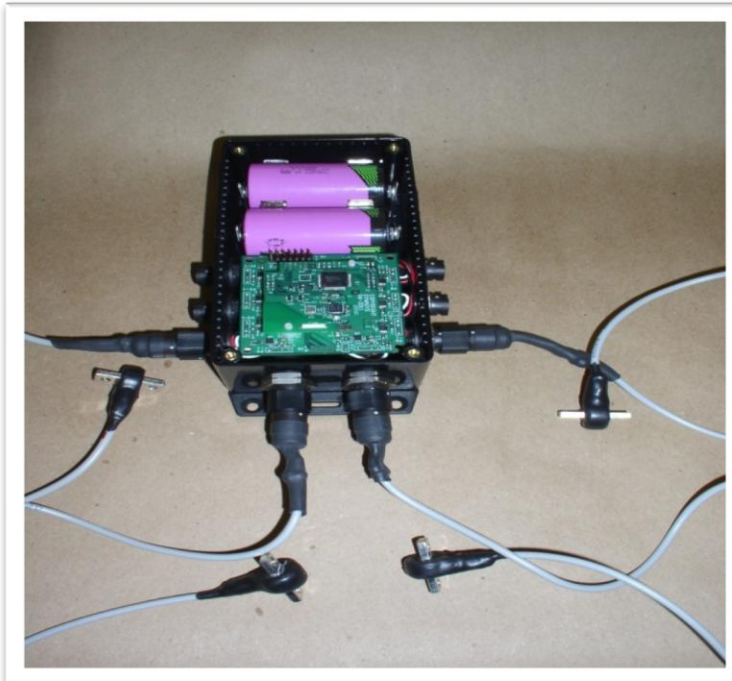
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FEATURES-

1. Extreme Temperatures-
-40°C to +105°C
2. External High-Gain Antenna option
3. Internal optimized balun/chip antenna.
4. Plastic housing with mounting slots.
5. High-capacity extreme temperature battery.
6. 16 I/O channels
7. 8 A/D channels
8. 2 serial channels
9. Internal temperature sensor



High-Capacity Sensor Tag:

1. 5 VDC converters for sensors
2. Sealed connectors for each channel.
3. Same transceiver board as the small tag.