



SeRFNet

# Dynasys Sensor RF Network SeRFNet

## Network Controller

The SeRFNet Network Controller controls the local SeRFNet network communication and uploads data to the local or global RAM (Reliability and Availability Management) System. The Controller initiates all communication and insures that no RF communications are initiated during mission critical times. The controller houses 4 major components: a Rabbit Controller, a local SimpliCI-based SeRFNet network access point, a Quatech WiFi wireless device server, and a power supply module.

### Operational:

- FCC: 2394 - 2507 MHz ISM Band

- 250 Ft. Open Field range with internal antenna

### Network Protocol:

- Dynasys Modified SimpliCI for Military applications
- 80 bit ID
- 128 time slots allocated for fast data transfer
- Zigbee option

### Communication Interface:

- WIFI 802.11b/g
- Standard: RS-232 serial

### Environmental:

- Operating Temperature: -40°C to 85°C
- Humidity: 10% to 95% relative humidity, non-condensing
- NEMA case resists spray of water and/or disinfectants

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### FEATURES –

- NEMA rated rugged locking case
- 9 to 36 VDC power supply input range
- 3-year RAM battery life
- Local Network Access point MSP430 controller
- Separate Application Processor
  - Rabbit RCM6700
  - 1 M Serial Flash
  - 1 M SRAM
  - Multiple I/O
  - Multiple serial ports
- Quatech WiFi wireless device server
  - 802.11b/g
  - Secure WPA2 Communications