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## PRODUCT INFORMATION BULLETIN

### AIR-EAGLE® SR PLUS 2.4 GHz RF Repeater MODEL 36-4500-AC

#### DESCRIPTION

The AIR-EAGLE SR PLUS RF REPEATER is designed to retransmit an RF signal from any Air-Eagle SR PLUS Transmitter. When placed in an area where the signal is weak, this unit will then re-transmit at full strength facilitating greater distances and allowing the RF signal to reach around corners, through tunnels, over hills and through valleys.

#### APPROVALS

|                     |             |
|---------------------|-------------|
| United States (FCC) | MCQ-XBEE3   |
| Canada (IC)         | 1846A-XBEE3 |
| Europe (CE)         | ETSI        |

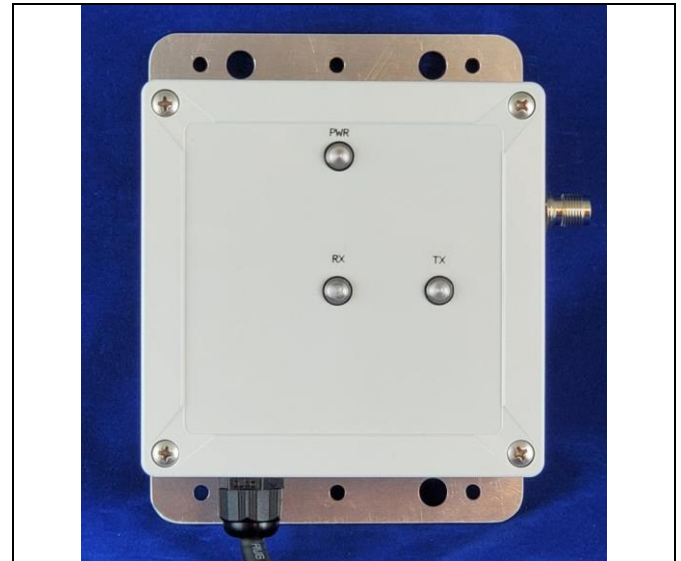
#### INSTALLATION

DISCONNECT Power from all equipment before installation.

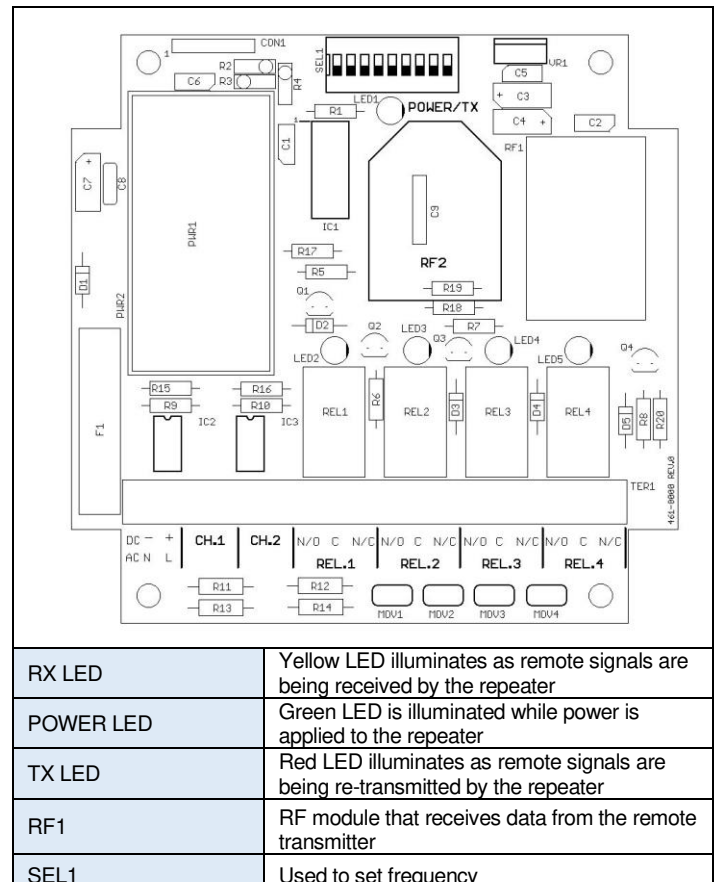
1. Mount the AIR-EAGLE XLT REPEATER in a convenient location.
2. Attach rubber duck antenna or coax from external antenna to connector on side of enclosure.
3. Connect supplied power input cable to your external power source.

#### TERMINAL STRIP WIRING

| TERMINAL STRIP WIRING (TER1) |             |
|------------------------------|-------------|
| Terminal 1                   | 100-250 VAC |
| Terminal 2                   | 100-250 VAC |
| Terminal 3                   | Not Used    |
| Terminal 4                   | Not Used    |
| Terminal 5                   | Not Used    |
| Terminal 6                   | Not Used    |
| Terminal 7                   | Not Used    |
| Terminal 8                   | Not Used    |
| Terminal 9                   | Not Used    |
| Terminal 10                  | Not Used    |
| Terminal 11                  | Not Used    |
| Terminal 12                  | Not Used    |
| Terminal 13                  | Not Used    |
| Terminal 14                  | Not Used    |



#### CONTROLS & INDICATORS



# AIR-EAGLE® SR PLUS

2.4 GHz RF Repeater

**MODEL 36-4500-AC**

## FREQUENCY SET-UP

This unit is shipped from the factory with SEL1 switches in the open positions and is operating on frequency #1. If you wish to change the default frequency setting, follow the instructions below:

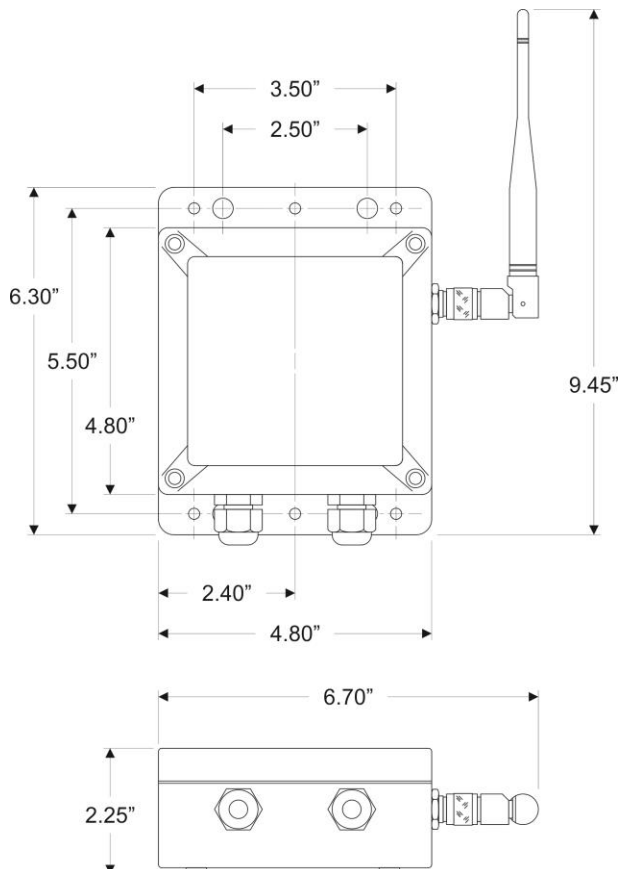
- 1) Remove power from unit and remove top cover.
- 2) Select desired network frequency using table below.
- 3) Reattach cover and apply power. Programming is now complete..

### FREQUENCY SELECTION

| SEL 1<br>(SW5, 6 & 7): | Network Frequency | SW5    | SW6    | SW7    |
|------------------------|-------------------|--------|--------|--------|
|                        | #1 (default)      | OPEN   | OPEN   | OPEN   |
|                        | #2                | CLOSED | OPEN   | OPEN   |
|                        | #3                | OPEN   | CLOSED | OPEN   |
|                        | #4                | CLOSED | CLOSED | OPEN   |
|                        | #5                | OPEN   | OPEN   | CLOSED |
|                        | #6                | CLOSED | OPEN   | CLOSED |
|                        | #7                | OPEN   | CLOSED | CLOSED |
|                        | #8                | CLOSED | CLOSED | CLOSED |

Note – Switches 1, 2, 3, 4, 8 & 9 are not used on this model. Leave in OPEN position

## DIMENSIONS



## SPECIFICATIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Power Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100-250 VAC, 5 W, 50/60 Hz    |
| Fuse Protected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 amp                         |
| Repeater Frequency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.4 GHz Spread Spectrum       |
| RF Output Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 60 mW                         |
| Repeater Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Up to 600 Feet                |
| <small>Note: Max range figures are estimates, based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including, but not limited to, indoor and outdoor structures such as walls, metal objects, trees, buildings, hills, and mountains.</small> |                               |
| RF Networks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Eight Independent Frequencies |
| Operating Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -40° F to +185° F             |
| Enclosure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Polycarbonate NEMA 4, IP66    |

## ACCESSORIES

| Standard Antenna (Included):                                                                                                                               |                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 2.4GHz TNC "Rubber Duck" Antenna                                                                                                                           | 49-1201                          |
| Mobile/Base Antennas –<br>Used to help achieve max range in both non line of sight and line of sight applications. - Contact BWI Eagle for recommendations |                                  |
| 2.4GHz Thru-Hole Mount Mobile Antenna                                                                                                                      | 49-2201                          |
| 2.4GHz Magnet Mount Mobile Antenna                                                                                                                         | 49-2202                          |
| 2.4GHz Omni Directional Base Antenna                                                                                                                       | 49-3201                          |
| 2.4GHz Yagi Directional Base Antenna                                                                                                                       | 49-3202                          |
| High Quality Coax Cables –<br>Used to connect external high gain antennas to control unit                                                                  |                                  |
| Flex Coax Cable w/Connectors – Available in 5', 15', 25', 30', 40', 60', 80', 100' Lengths                                                                 | 49-4000-XX<br>(XX = # of Feet)   |
| Bulkhead Extensions –<br>Used to provide an external antenna connection when mounting control unit inside another enclosure                                |                                  |
| TNC Male to TNC Bulkhead Cable Assembly - Available in 2', 4', 7' Lengths                                                                                  | 49-5004-X-ISO<br>(X = # of Feet) |

## LIMITED WARRANTY STATEMENT

BWI Eagle Inc. warrants the Air-Eagle Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

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