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# PRODUCT INFORMATION BULLETIN

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

### DESCRIPTION

The AIR-EAGLE SR PLUS RF REPEATER IS designed to retransmit an RF signal from any Air-Eagle SR or 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)	OUR-XBEEPRO
Canada (IC)	4214A-XBEEPRO
Europe (CE)	ETSI

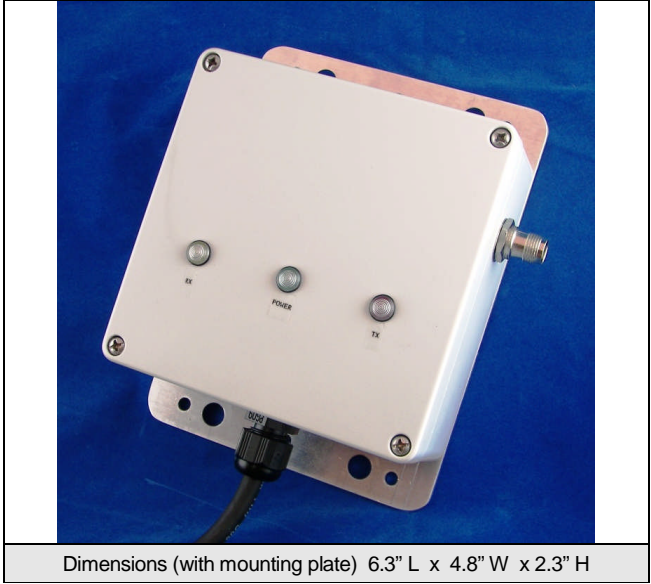
### INSTALLATION

DISCONNECT DC Power from all equipment before installation.

1. Mount the AIR-EAGLE SR PLUS REPEATER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure. Attach the supplied portable antenna to this connector.
3. Connect DC power and control to the proper terminals in your control circuit.

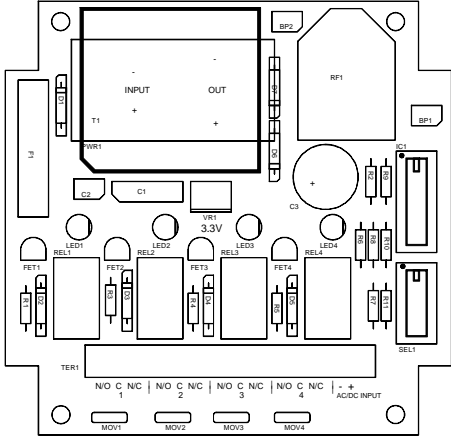
### TERMINAL STRIP WIRING

1	Not Used	7	Not Used	13	(-) 9-36VDC INPUT
2	Not Used	8	Not Used	14	(+) 9-36VDC INPUT
3	Not Used	9	Not Used		
4	Not Used	10	Not Used		
5	Not Used	11	Not Used		
6	Not Used	12	Not Used		



Dimensions (with mounting plate) 6.3" L x 4.8" W x 2.3" H

### CONTROLS AND INDICATORS



RX LED	Yellow LED illuminates as remote signals are being received by the repeater
POWER LED	Green LED is illuminated while power is applied to the repeater
TX LED	Red LED illuminates as remote signals are being re-transmitted by the repeater
RF1	RF module that receives data from the remote transmitter
SEL1 Switches 4-6	Used to set frequency
SEL1 Switches 1-3;7	Not used on this model

# AIR-EAGLE® SR PLUS

2.4 GHz RF Repeater

**MODEL 36-4500-DC**

## FREQUENCY SET-UP

The unit is shipped from the factory with all SEL1 switches in the open positions, and defaults to Frequency #1. If you wish to change the default Network Frequency Address, follow the table below to set Switches 4-6.

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

### RELAY SET-UP

SEL1 Switches 1-3	N/A			
<b>FREQUENCY SET-UP</b>				
SEL1 Switches 4-6	Network Address	SW4	SW5	SW6
	1	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	
<b>OTHER</b>				
SEL1 Switch 7	Reserved for Future Use			

## SPECIFICATIONS

DC Input	9 – 36 VDC @ 10 Watts
Fuse Protected	1 amp
Repeater Frequency	2.4 GHz Spread Spectrum
RF Output Power	60 mW
Repeater Range	Approximately 1200 feet
Repeater Channels	Four independent networks
Operating Temperature	-40° F to +185° F
Enclosure	ABS Plastic / NEMA 4, 4X, 12 + 13

## REPLACEMENT PARTS & ACCESSORIES

PC Board (Main)	36-4502-DC
Standard Antenna (Included):	
2.4GHz TNC Portable Antenna (For distances up to 1200 feet*)	49-1201
Optional Antennas and Accessories – Used to increase 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 Magnetic Mount Mobile Antenna	49-2202
2.4GHz Omni Directional Antenna	49-3201
2.4GHz 13dB Yagi Antenna	49-3202
Flex Coax Cable w/Connectors – Connects external antenna(s) to base unit(s).	49-4000-XX (XX = # of Feet)
Inline Lightening Arrestor	49-5002
* = Line of Sight	

## 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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