

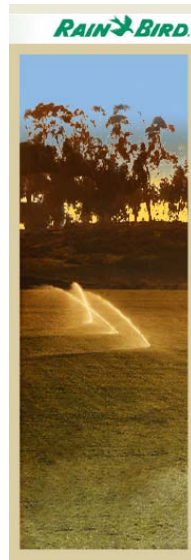


## Central Control Communications Devices and Accessories

Maxicom<sup>2</sup>



IQ<sup>TM</sup>



Site Control



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## RBDS – CME

### Primary Wired Device Server

- Primary communication for Maxicom computer
- TCP/IP , 10/100 BASE T, half/full duplex
- RJ45 Ethernet port
- DB25 DTE serial port for RS232 communication
- Configured for modem emulation
- Supplied with 5 VDC power supply and null cable



## RBDS – PME

### Primary Wired Device Server

- Primary communication for Maxicom CCU, Site Sat & weather station; IQ computer & Satellites; Site Control computer & TWI, SDI & LDI
- TCP/IP , 10/100 BASE T, half/full duplex
- RJ45 Ethernet port
- DB25 DCE serial port for RS232 communication
- Supplied with 12 VDC power supply and serial cable



## RBDS – PMW

### Primary Wireless Device Server

- Primary communication for Maxicom CCU and Site Sat\* ; IQ Satellites
- Industry standard 802.11b/g wireless interface
- TCP/IP, 10/100 BASE T, half/full duplex
- Also has wired RJ45 Ethernet port
- Security enabled by IEEE 802.11i-PSK, WPA-PSK, TKIP
- DB9 DTE serial port for RS232 communication
- Supplied with 12VDC power supply and null modem cable

\* not compatibility tested, application by approval only



## RBDS – SMWK

### Secondary Wireless Device Server Kit

- Secondary communication for Maxicom CCU and Satellites
- Industry standard 802.11b/g wireless interface
- UDP/IP , 10/100 BASE T, half/full duplex
- Also has wired RJ45 Ethernet port
- Security enabled by IEEE 802.11i-PSK, WPA-PSK, TKIP
- DB9 DTE serial port for RS232 communication
- LM-M-LMO - RS232 to TTL adapter included
- Supplied with 12VDC power supply, null cable and ribbon cable



## RBDS – SEMET

### Secondary Wired Device Server

- Secondary communication for Maxicom CCU and Satellites; Site Control TWI Link & Satellites
- UDP/IP , 10/100 BaseT, half/full duplex
- DB9 serial port for TTL
- LM-M-LMO RS232 to TTL adapter included
- Supplied with custom ribbon cable

## RBRD – SS-TN9



- **Primary Spread Spectrum Radio**
- Primary communication for Maxicom computer, CCU and Site Sat; IQ computer & Satellites; Site Control computer & TWI, SDI & LDI
- Non- license, 902 – 928 MHz operating range; frequency hopping
- Rugged case;
- 12VDC power supply & DB9 serial cable included
- Program as Master, Remote or Repeater/Remote
- RS232 serial interface; separate diagnostics and programming port
- TNC female antenna connector
- Range up to 5 miles line of sight

## RBRD – SS-TN9B



- **Primary Spread Spectrum Radio**
- Primary communication for Maxicom computer, CCU and Site Sat; IQ computer & Satellites; Site Control computer & TWI, SDI & LDI
- Non- license, 902 – 928 MHz operating range; frequency hopping
- Standard case; mount in an enclosure
- 12VDC power supply & DB 9 serial cable included
- Program as Master, Remote or Repeater/Remote
- RS232 serial interface; separate diagnostics and programming port
- TNC female antenna connector
- Range up to 5 miles line of sight

## RBRD – SS-TN9B - MIB



- **Secondary Spread Spectrum Radio**
- Secondary communication for Maxicom CCU and Satellites
- Non- license, 902 – 928 MHz operating range; frequency hopping
- Connects to CCU using DB9 ribbon cable; attaches directly to Satellite MIB
- Program as Master, Remote or Repeater/Remote
- TTL interface separate diagnostics and programming port
- Six inch SMA x TNC female antenna cable included
- range up to 5 miles line of sight

## **96" Omni Directional Base Antenna**

**RBSC Product ID**

**RBRD-ODA- 96**

**PRODUCT DESCRIPTION:**

902-928 MHz, 150 Watts, 7dB Gain

N Male Conn, White Fiberglass

Base matched 1/2 wave antenna encapsulated in a heavy duty white fiberglass radome. Effective "J" pole design requires no radials or ground plane.

<b>SPECIFICATIONS</b>	
Frequency Range (MHz)	902-928
Gain	7 dBd
Bandwidth (MHz)	Same as Freq Range
Electrical Downtilt	0
Power (watts)	150
Vert. Beamwidth	17 Deg
Termination	16" Pigtail w/N-Male
Jumper Supplied	No
Mounting Hardware*	Optional MMK1 or MMK3
Support Pipe Dia. (in.)*	1-5/16
Overall Length (in.)	96
Wind Rating (mph)	100
Net Weight (lbs.)	4
Ship Weight (lbs.)	7

*\* Not Included*

Recommended: Polyphaser Surge Suppression for all remotely located outdoor antennas.



## 23" Omni Directional Base Antenna

**RBSC Product ID**  
**RBRD-ODA-23**

**PRODUCT DESCRIPTION:**  
902-928 MHz, 150 Watts, 3dB Gain  
N-Fem Conn, White Fiberglass

Base matched 1/2 wave antenna encapsulated in a heavy duty white fiberglass radome. Effective "J" pole design requires no radials or ground plane.

SPECIFICATIONS	
Frequency Range (MHz)	902-928
Gain	3 dBd
Bandwidth (MHz)	Same as Freq Range
Electrical Downtilt	0
Power (watts)	150
Vert. Beamwidth	40 Deg
Termination	N-Female
Jumper Supplied	No
Mounting Hardware*	Optional MMK1 or MMK3
Support Pipe Dia. (in.)*	1-5/16
Overall Length (in.)	26
Wind Rating (mph)	100
Net Weight (lbs.)	1.25
Ship Weight (lbs.)	3

\* Not Included

Recommended: Polyphaser Surge Suppression for all remotely located outdoor antennas.



## 48" Omni Directional Base Antenna

**RBSC Product ID**  
**RBRD- ODA-48**

**PRODUCT DESCRIPTION:**  
902-928 MHz, 150 Watts, 5dB Gain  
N Male Conn, White Fiberglass

Base matched 1/2 wave antenna encapsulated in a heavy duty white fiberglass radome. Effective "J" pole design requires no radials or ground plane.

SPECIFICATIONS	
Frequency Range (MHz)	902-928
Gain	5 dBd
Bandwidth (MHz)	Same as Freq Range
Electrical Downtilt	0
Power (watts)	150
Vert. Beamwidth	22 Deg
Termination	16" Pigtail w/N-Male
Jumper Supplied	No
Mounting Hardware*	Optional MMK1 or MMK3
Support Pipe Dia. (in.)*	1-5/16
Overall Length (in.)	48
Wind Rating (mph)	100
Net Weight (lbs.)	1.75
Ship Weight (lbs.)	5

\* Not Included

Recommended: Polyphaser Surge Suppression for all remotely located outdoor antennas.



## 3" High Omni Directional Antenna

**RBSC Product ID**  
**RBRD-TRA9023NP**

**PRODUCT DESCRIPTION:**  
The Phantom, Low Profile  
902-928, NGP, Screwbase

No ground plane, Phantom® Low profile transit permanent mount antenna. Mounts to flat surfaces and terminates with N-Female Connector. Versatile antenna containing both vertical and horizontal components.

SPECIFICATIONS	
Frequency Range	902-928
Connector Type	None
Gain	3 dB
Bandwidth	26 MHz
Power (watts)	100
Whip Length	2-1/2"
Base Style	Permanent Mount
Mount Style	None



**Includes six foot antenna cable - N-male x TNC-male connectors**

## 3" High Omni Directional Antenna

**RBSC Product ID**  
**RBRD - TRA9023N**

**PRODUCT DESCRIPTION:**  
The Phantom, Low Profile Ant  
902-928 MHz, NGP, 3/4 Mount

No ground plane, Phantom® Low profile transit NMO style antenna. Versatile antenna containing both vertical and horizontal components. Can be used indoors or other fixed station applications.

SPECIFICATIONS	
Frequency Range	902-928
Connector Type	None
Gain	3 dB
Bandwidth	26 MHz
Power (watts)	100
Whip Length	2-1/2"
Base Style	NMO Style
Mount Style	None



**Includes six foot antenna cable - NMO mount x TNC-male connectors**

## Low Profile Disk Antenna

RBSC Product ID

**RBRD- 4p960NMO**

**PRODUCT DESCRIPTION:**

LOW PROFILE UNITY ANTENNA  
806-960 MHZ NMO MOUNT

Mirage low profile NMO style antenna using PCB technology. 12" diameter ground plane required for optimum performance.



SPECIFICATIONS	
Frequency Range	806-960
Connector Type	None
Gain	0 dB
Bandwidth	8.5% of Frequency
Power (watts)	100
Whip Material	Black UV Resistant
Whip Length	4" Dia. x 1-1/4"(H)
Base Style	NMO Style
Mount Style	None



**Includes six foot antenna cable - NMO mount x TNC-male connectors**

## 3 Element Yagi Antenna

RBSC Product ID

**a) RBRD-YAGI-6**

**b) RBRD- YAGI-10**

**PRODUCT DESCRIPTION:**

- a) 902-960 MHZ, 150 WATTS, 6 DB  
3 ELEMENT
- b) 902-960 MHZ, 150 WATTS, 10 DB  
3 ELEMENT

N-female connector



**Recommended: Polyphaser Surge Supression for all remotely located outdoor antennas**

## **3" High Rubber Duck Antenna**

**RBSC Product ID**  
**RBRD-RD1**

**PRODUCT DESCRIPTION:**

902-928 SMA connector

Helix 1/4 wave 'rubber duck' antenna. Attaches directly onto the RBRD-SS-TN9B-MIB radio.

<b>SPECIFICATIONS</b>	
Frequency Range	902-928
Connector Type	SMA male
Gain	1 dB
Bandwidth	26 MHz
Power (watts)	100
Length	2-1/2"



## **Antenna Cable**

**RBSC Product ID**  
**RRBRD - xxFT-LMR195**

**PRODUCT DESCRIPTION:**

Low loss braided coax cable  
.037" solid core, foam insulation,  
PE jacket; 100% shielded

N-male x N-female connectors unless  
otherwise specified

Typically used for lengths up to 25 ft

**RBSC Product ID**  
**RRBRD - xxFT-LMR400**

**PRODUCT DESCRIPTION:**

Low loss braided coax cable  
.108" solid core, foam insulation,  
PE jacket; 100% shielded

N-male x N-female connectors unless  
otherwise specified

Typically used for lengths between 25 ft and 75 ft



**CONTACT RBSC FOR SPECIFYING LENGTHS > 75 FT**

## ADAPTERS

Convert from N to TNC

RBSC Product ID

**RBRD-TNCMXNF**

TNC-male x N-female adapter



RBSC Product ID

**RBRD-TNCFXNM**

TNC-female x N-male adapter



## ATTENUATORS

Reduce power setting in radio.

RBSC Product ID
ATTEN-1
ATTEN-3
ATTEN-6
ATTEN-10
ATTEN-20
ATTEN-30
ATTEN-40



1 db to 40 db attenuation  
TNC-male x TNC-female

## Surge Protector

RBSC Product ID

**RBRD-50NXC2ME**

### PRODUCT DESCRIPTION:

125-1000 MHz Flange Mount Coax  
Protector w/ N-female x N-Male connectors

Broadband HF/VHF/UHF gas tube coaxial protector with multi-strike capability for general radio use. Not recommended for transmitter combining. Not weather resistant.

Connector options: -MA for male on antenna port. -ME for male on equipment port.



SPECIFICATIONS	
Frequency Range	125-1000 MHz
Power	VHF 375W, UHF 125W, 800-1000 MHz 50W
Connectors	N-female x N-male
Turn-on Voltage	600 Vdc
Throughput Energy	<=220μJ