



BMRT-(x)B

Multi-Band Universal Tracking Receiver



> Key Features

- For Use with BMS Antenna Tracking Systems
- Two Models for Four or Five Band Operation
- Provides Compatible RSSI to Antenna Controller
- Agnostic as to Receiver Waveform or Modulation

> Applications

- UAV/UGV Remote Reception
- Remote Reception of ISR Aircraft

> Options

- Environmental Enclosure (shown)
- PCB Assembly for system retrofit (special order)

The BMRT-(xx) tracking receiver is used whenever the system receiver does not develop a receive signal strength indication (RSSI) that is compatible with the tracking controller used in BMS GTA or TAS Series microwave tracking antennas.

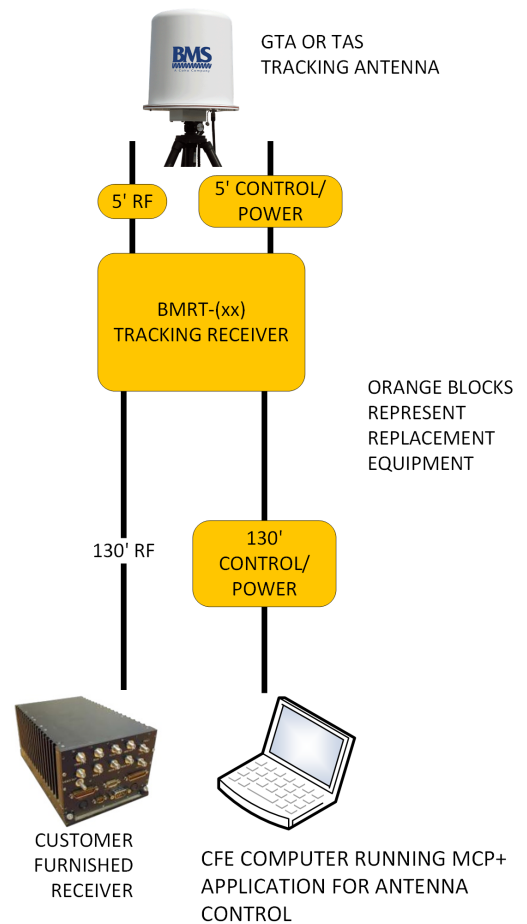
The BMRT-(x)B may be added to an existing system, or added at the time of order. The receiver allows proper RF tracking using the pseudo-monopulse method.

The addition of the tracking receiver makes the BMS Tracking Antenna System completely agnostic as to waveform or receiver used. Selectable bandwidths of 1, 2, 10, and 27 MHz service nearly all downlink receivers. Receiver configuration and control is accomplished using an RS-232 connection to a PC running the BMS Multi-Control Point (MCP) Windows application.

> BMRT-(x)B Tracking Receiver

> Technical Specifications

Frequency:	See ordering information
Tuning Step Size:	250 KHz, 1 MHz (others available)
Adjustable Bandwidth:	1, 2, 10, 27 MHz
Frequency Stability:	± 2.5ppm
RF Input:	N(f)
RF Impedance:	50 ohm, 1.5:1 VSWR
RF Output:	N(f)
Configuration and Control:	Connection with MCP™ Windows® App
RSSI:	Receive signal strength indicator to GTA-Series antenna
Input Voltage Range:	+24 to +32 VDC
Power Consumption:	19 W or less
Temperature Range	
Full Specification:	-20° to +40°C
Storage:	-40° to +70°C
Humidity:	0 to 95% non-condensing
Ingress Protection:	IP67
Altitude	
Operating:	20,000ft (6,000 m)
Non-operating:	50,000 ft (15,240 m)
Size:	2.25" H x 5.25" W x 10.00" L (5.715 x 13.34 x 25.4 cm) <i>without connectors or mounting flange</i>
Weight:	4.5 lb. (2.04 kg)
Control Connector In	PT02E-22-32S
Control Connector Out	PT02E-22-32P



BMRT-(x) output



BMRT-(x) input

> Ordering Information

Model	DESCRIPTION
BMRT-4B	Four Band Receiver: L/S/C1/C2
BMRT-5B	Five Band Receiver: L/S/C1/C2/Ku
Control Cable	5' Jumper
Control Cable	130'
RF Cable	5' Jumper, RG-214
RF Cable	130', LMR-400

> Legend (Frequency Bands)

L = 1710 - 1850 MHz
 S1 = 2200 - 2400 MHz
 S = 2200 - 2500 MHz
 C1 = 4400 - 5000 MHz
 C2 = 5250 - 5850 MHz
 Ku = 14.4 - 15.35 GHz

Broadcast Microwave Services, Inc. | www.bms-inc.com | sales@bms-inc.com

Corporate Headquarters
 12305 Crosthwaite Circle | Poway, CA 92064 US
 Phone: +1 (858) 391-3050 | Fax: +1 (858) 391-3049

European Sales and Support Office
 Georg-Ohm-Straße 2 | 65232 Taunusstein | Germany
 Phone: +49 (0) 6128 7408 200 | Fax: +49 (0) 6128 7408 229

