

BCM-144 Mobile Radio



Introducing the BCM-144 Mobile Radio by BridgeCom Systems, Inc. The BCM-144 operates in 144-147.99 MHz VHF (2m) range of the amateur radio RF Spectrum. The BCM-144 is packed with features including a 50 watt Mitsubishi power amplifier with selectable output power, Alpha-Numeric Back-lit Display, 4W Front Panel Speaker for excellent audio, VFO mode and Memory mode with up to 250 memory channels. Included in the package is the Radio, DTMF microphone, mounting hardware and 12V power cord. Get on the 2m band today with a BCM-144.

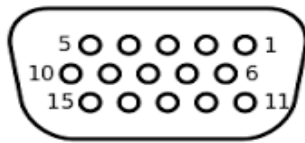
Features

- 144.0-147.99 MHz TX / 136.0-174.0 RX
- Mitsubishi RF Power Amplifier - 5, 10, 25, and 50 Watts Selectable
- 250 Channel Capability
- High Quality ± 1.5 ppm Frequency Stability TCXO
- High Quality Heavy Duty DTMF Mic
- 128x32 Alpha-Numeric Dot Matrix Display
- CTCSS/DCS Encode/Decode
- User Selectable Squelch Level
- Rear Panel Data Port (DE-15) - Use as a link radio or with a TNC
- UHF Female Antenna Connector (SO-239)
- 4W High Quality Front Panel Speaker
- VFO and Memory Mode
- VFO Scan and Memory Scan
- 10W External Speaker Out port
- Memory Store and Delete
- Optional Windows Based Programming Software and Cable

General	BCM-144
Channel Spacing	12.5/25 kHz
Dimension (H/W/D)	1.75 x 6.5 x 6.75" (45 x 165 x 171.5 mm)
Weight	38.9 oz (2.4 lbs)
Operating Voltage	13.8 V DC
PLL Channel Step	2.5 kHz, 5.0 kHz, 6.25 kHz
Frequency Stability	± 1.5 ppm
Current Drain	25 W Tx- approx 7A Rx @ Max Audio 800 mA Standby 300 mA
Operating Temperature	-22° to 140° F, (-30° to +60° C)
External Audio Jack	3.5 mm 4 Watt/4 Ω

Accessory Port Pin Out

- 1 RSSI Output
- 2 Broadband DATA In
- 3 External Speaker 4W
- 4 Audio Frequency Out
- 5 External Mic Input
- 6 Tx Serial Data
- 7 Rx Serial Data
- 8 External PTT
- 9 Flat (discriminator) Audio Out
- 10 COR/Carrier Operated Squelch
- 11 Programmable External Input
- 12 DC +5.0V Out
- 13 Horn Relay 1
- 14 Horn Relay 2
- 15 Ground



DE-15 Pinout

UHF Female Antenna Connector

In our on-going commitment to quality, specifications are subject to change without notice.

Transmitter	BCM-144
Output Power	0-50 Watts Adjustable
Spurious/Harmonic	70dB
FM Hum/Noise	40dB (12.5 kHz), 45dB (25 kHz)
Output Impedance	50 ohms
Audio Distortion	Less than 5% at rated output
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz
Receiver	BCM-144
Sensitivity	.25uV or less @ 12dB SINAD
Squelch Sensitivity	.22uV or less @ 10dB SINAD
Selectivity	65dB (12.5 kHz), 70dB (25 kHz)
Spurious/Harmonic	75dB
FM Hum/Noise	40dB (12.5 kHz), 45dB (25 kHz)
IF Frequencies	21.4 MHz and 455 kHz
Input Impedance	50 ohms
Audio Output Power	4W
Audio Distortion	3% max w/1 kHz modulation
Audio Response	+1, -3dB from 6dB per octave pre-emphasis and characteristic 300 ~ 3000 Hz