

## Carrier Class Backhaul Radio BH-11      BH11-MX



### 100 Mb Long distances Carrier Class Ruggedized Backhaul

The BH is an ideal cost-effective outdoor Backhaul networking solution for ISP service companies, and corporate branches. Designed from the beginning to give carrier class type services, BH can do long distance links in the toughest environments with outstanding stability.

It can be used as a Base Station to attend multiple clients, or as a single point-to-point link. Equipped with one Ethernet port, the BH-11 may connect to a hub or to a switch or an access Point without the need to install a router. This represents significant savings on hardware costs.

BH11 series use MIMO/OFDM technology operating in the 5.1, 5.3, 5.8 GHz license free bands. Because OFDM can take advantage of reflected RF signals, it is now possible to connect locations you may have thought were inaccessible due to line of sight barriers.

Most features of the BH-11 are pre-configured and automatically adapt to the environment, making configuration and use very simple. The BH-11 supports VLAN, transparent Bridge and comes with robust management features, such as NAT, DHCP Client, DHCP Server, IP Routing, RIP2 and SNMP. These features and its processing capacity make the BH-11 a unique product in the outdoor wireless market.

#### Hardware Highlights

- 700 MHz Processor - 64 MB Memory
- Die cast enclosure engineered for reliability even in the hottest regions of the world

#### CCLASS Super Router OS Software

- Transparent MAC Layer operation
- VLAN support
- Learning bridge that supports forwarding and filtering
- Durable outdoor case construction
- IP Routing
- Spanning Tree Protocol
- VoIP Support
- QoS
- **Nstreme protocol**
- Polling algorithm
- Long Distance throughput
- Super packet Aggregation

#### Radio Features

- Wireless data rates of up to 150 Mbits/sec
- Full bandwidth management/ CIR/ MIR
- **100 Mbps real throughput**
- No FCC license required 5.1-5.4-5.8 GHz OFDM operation
- 16 user-selectable operating sub-channels
- Radio link and antenna alignment diagnostics
- WEP hardware encryption standard
- **Operating range up to 40 miles**
- Output Power 320 mW (BH-11)
- Output Power 500 mW (BH-11MX)

#### Ethernet Features:

- 10/ 100 Dual Ethernet (802.3 Compliant)
- Power over Ethernet



**3 technologies in 1 radio:**  
**Open WiFi**  
**High throughput MIMO**  
**Long distance Nstreme**

# BH 11 Series



Wireless Carrier Class Solutions



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## BH- 11 Specifications

### Firmware Features

- Routing RIP 1 / 2, OSPF v2, BGP v4 (equal cost multi-path routing, policy based routing, firewall marked packet routing)
- PPP (ISDN, PPPoE, modem pool)
- RADIUS authorization and accounting
- IP telephony
- Bridging- WDS- MESH Topologies
- Stateful Firewall and NAT
- VLAN
- DHCP
- Tunnels (PPTP (VPN), IPsec, EoIP, IPsec)
- IP traffic accounting, firewall actions logging
- Bandwidth Management (per IP / protocol / subnet / port, CBQ, RED, SFQ, byte FIFO, packet FIFO)
- Tools (ping, traceroute, bandwidth test, ping flood, telnet)
- DNS cache
- Web cache
- SNMP
- NTP (Network Time Protocol)
- Remote administration and upgrading
- NSTREME LONG RANGE- HIGH THROUGHPUT FEATURES:** Polling, Super packet aggregation

### Radio Features

- Spread spectrum method: MIMO or OFDM 80211.a WIFI or Nstreme
- Frequency (User selectable) IEEE 802.11a, 5 GHz
- Channels (User selectable) 5120- 6100 (5 to 40 Mhz Steps)
- 5.8 GHz Power and sensitivity chart:**
- 320 mW 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6**
- 5.8 GHz Wireless transmission rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6
- 5.8 GHz Radio transmit power 25 dBm nominal @ 6 Mb/sec, 17 dBm nominal @ 150 Mb/sec
- 5.8 GHz Radio receive sensitivity -97 dBm @ 6 Mb/sec, -74 dBm @ 150 Mb/sec
- 500 mW Amplified 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6**
- 5.8 GHz Radio transmit power 25 dBm nominal @ 24 Mb/sec, 17 dBm nominal @ 150 Mb/sec
- 5.8 GHz Radio receive sensitivity -96 dBm @ 24 Mb/sec, -91 dBm @ 54 Mb/sec

### System Hardware Features

- Dimensions (RF unit) 9" x 7" x 3.5" (22.9 cm x 17.8 cm x 8.9 cm)
- Weight: 4.5 lbs.
- Shipping weight (complete package) Approx. 26 lbs. (standard package)
- 64 MB Memory- 700 MHz processor
- Operating temperature -30°C to 55°C (-20°F to 131°F)
- Storage temperature -30°C to 75°C (-20°F to 167°F)
- Humidity 0% to 100% (Non-immersion rain)
- Wall wart power supply included Yes, 110/240 VAC
- Power design: Carrier Class Power over Ethernet
- Power required (at radio) +12 to +18 VDC (from included power supply)
- Wired Network Interface (at PoE injector) RJ-45 10/100Base-T
- Certification: Part 15 FCC
- Warranty 1 year depot

**More Information: [info@wi-Corp.com](mailto:info@wi-Corp.com)**

**BH-11 Series**