2.4GHz, 4.9GHz and 5.8GHz BH450 Freespace Systems

Introducing the Bh450 High Performance Point to Point Backhaul System
Freespace Systems' quad-band point to point system gives users the greatest flexibility in network design, highest levels of performance, with the best price/performance value in the marketplace. The Bh450 delivers best of class performance of over 80 Mbps throughput over its radios combined with full 100Mbps throughput on its dual Ethernet ports. It also boasts extremely long range link capability exceeding 30 miles.

Specifications:
Freespace BH450 Point To Point

Radio Specifications	
Output Power	2.4GHz=19dBm; 4.9 & 5GHz = 18dBm Max.
Frequency Range	2.400 to 2.483; 4.940 to 4.990; 5.15 to 5.35; 5.75 to 5.825; 5.45 GHz when available
Sensitivity	-105 dBm
Modulation	OFDM
Connection Rate	108, 54, or 12Mbps
Channels	Over 25 user configurable channels
Chipset	Atheros AR5004
Advanced	- Enhanced bursting, compression and fast frames - Proprietary extended range functionality allowing for links well over 30 miles LOS - Proprietary advanced signal processing for improved weak signal link stability and signal survival in polluted RF environments
Operational Features	
Operation Mode	Dual mode operation: standards compliant or proprietary
Cell Density	Four radios per unit, each independently controlled
Range	Over 30 miles maximum range LOS
Bandwidth	80 Mbps maximum throughput
User Interface	Windows based GUI
Monitors	Association list; bandwidth test/monitor; traffic monitors
Firmware Upgrade	- Via wireless/wired connection - Seamless upgrade with configuration preservation
Security	- Freespace proprietary hardware/firmware authentication algorithms - AES hardware encryption over the air - RADIUS and MAC authentication - WPA-PSK; WPA EAP/TLS, EAP/TTLS, and EAP/PEAP - TKIP & AES ciphers - 64, 128 and 154 bit WEP
Routing Features	- DHCP client and DHCP server options - 802.11d bridging - SNMP support for basic traffic information - RIP and OSPF support

Physical	
Temperature Range	-40 to +85 Celsius
Power System	- 6 VDC minimum, 12 VDC typical, 28 VDC Max; 120VAC power supply - Proprietary PoE power system
Ethernet Interface	Dual RJ45 10/100BaseT with auto MDI-X weatherproof integrated RJ45 connectors
Antenna Connector(s)	Int. N Female
Enclosure	Weatherproof ESD shielded/hardened
Dimensions	6.5” x 5.5” x 2”