

**Datasheet**

The Power Behind  
Wireless  
Communications

**Xspot Mark-I**  
indoor version  
HL.00.200

Datasheet Version 1.1 – November 2005

## Xspot Mark-I – Gateway and Access Point

**Standards**

IEEE 802.11a	IEEE 802.11g
IEEE 802.11b	IEEE 802.11h
IEEE 802.11d	IEEE 802.11i
IEEE 802.11e	IEEE 802.11j
IEEE 802.1q	
IEEE 802.3	IEEE 802.3af
IEEE 802.3u	IEEE 802.3x

**Device Management**

Web-Based - Internet Explorer v6 or later; Netscape Navigator v7 or later; or other Java-enabled browsers.  
SSH command line interface  
Call Home Facility (CHF), XML interface  
SNMP v1 or v2

**Data Rates**

IEEE 802.11a/g: 54, 48, 36, 24, 18, 12, 9 and 6Mbps  
IEEE 802.11b: 11, 5.5, 2, and 1Mbps

**Security**

64-, 128-bit WEP  
WPA – Enterprise/Personal  
WPA2 – Enterprise/Personal  
MAC Address Access Control List  
IEEE 802.1x (optional)

**Wireless Frequency Range**

2.4GHz to 2.484GHz  
4.9GHz to 5.9GHz (Dependent on region/country settings)

**Radio and Modulation Type**

802.11b DSSS:  
DBPSK @ 1Mbps  
DQPSK @ 2Mbps  
CCK @ 5.5 and 11Mbps

For 802.11a/g OFDM:  
BPSK @ 6 and 9Mbps  
QPSK @ 12 and 18Mbps  
16QAM @ 24 and 36Mbps  
64QAM @ 48 and 54Mbps

For 802.11g DSSS:  
DBPSK @ 1Mbps  
DQPSK @ 2Mbps  
CCK @ 5.5 and 11Mbps

**LEDs**

Power – Status - LAN 1 - LAN 2

**Receiver Sensitivity**

1Mbps	-94dBm
2Mbps	-92dBm
5.5Mbps	-91dBm
6Mbps	-90dBm
9Mbps	-88dBm
11Mbps	-87dBm
12Mbps	-87dBm
18Mbps	-84dBm
24Mbps	-80dBm
36Mbps	-76dBm
48Mbps	-71dBm
54Mbps	-69dBm

**Certification**

Complies with FCC part 15 class A  
CE marking EN55022 class A  
CE marking EN55024

**Temperature**

Operating: 0°C to 40°C (32°F to 104°F)  
Storage: -20°C to 65°C (-4°F to 149°F)

**Humidity**

Operating: 10%~90% (non-condensing)  
Storage: 5%~95% (non-condensing)

**Operating Voltages**

24 to 48VDC for Power over Ethernet  
12 to 56VDC for external power supply

**RF Transmit Output Power @ 2.4GHz**

1, 2, 5.5 and 11Mbps	18dBm (63mW)
6Mbps	18dBm (63mW)
9Mbps	18dBm (63mW)
12Mbps	18dBm (63mW)
18Mbps	18dBm (63mW)
24Mbps	17dBm (50mW)
36Mbps	17dBm (50mW)
48Mbps	14dBm (25mW)
54Mbps	14dBm (25mW)

**RF Transmit Output Power @ 5GHz**

6Mbps	17.5dBm (56mW)
9Mbps	17.5dBm (56mW)
12Mbps	17.5dBm (56mW)
18Mbps	17.5dBm (56mW)
24Mbps	16.8dBm (48mW)
36Mbps	16.8dBm (48mW)
48Mbps	14.5dBm (28mW)
54Mbps	14.5dBm (28mW)

**Wireless Operating Range**

802.11g (Full Power with 5dBi gain diversity dipole antenna)

**Indoor**

100m (328ft)	@ 6Mbps
90m (295ft)	@ 9Mbps
80m (262ft)	@ 12Mbps
70m (230ft)	@ 18Mbps
50m (164ft)	@ 24Mbps
40m (131ft)	@ 36Mbps
35m (115ft)	@ 48Mbps
30m (98ft)	@ 54Mbps

**Outdoor**

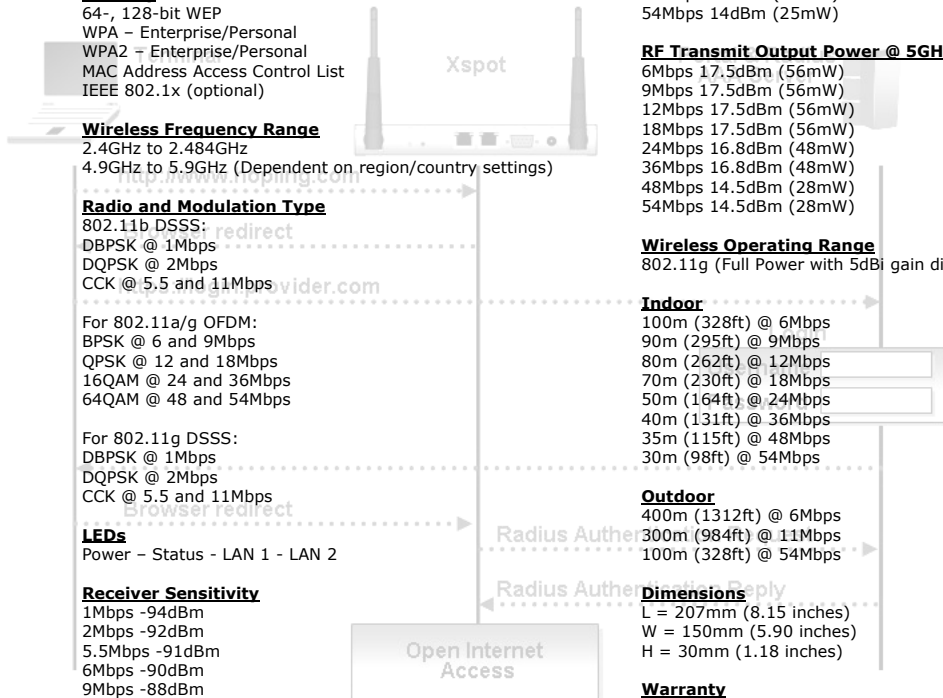
400m (1312ft)	@ 6Mbps
300m (984ft)	@ 11Mbps
100m (328ft)	@ 54Mbps

**Dimensions**

L = 207mm (8.15 inches)  
W = 150mm (5.90 inches)  
H = 30mm (1.18 inches)

**Warranty**

Standard 1-Year



**FOR MORE INFORMATION**

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