

## RedFire200 / RedFire1000



RedFire e Series Radio



RedFire i Series Radio

### WEIGHT

1.8 kg (3.96 lbs)	RedFire200e
2.2 kg (4.85 lbs)	RedFire1000e
2.3 kg (5.07 lbs)	RedFire200i
2.8 kg (6.17 lbs)	RedFire1000i

### PHYSICAL DIMENSIONS (W x L x H)

250 x 259 x 75 mm	RedFire e Series
9.9 x 10.2 x 3.0 in	
296 x 331 x 105 mm	RedFire i Series
11.7 x 13.0 x 4.1 in	

The RedFire Series Radios are designed for high data rate and long distance outdoor bridge / hotspot applications which operate on the 2.4GHz ISM band utilizing OFDM and DSSS technology. This outdoor radio is easy to install, boasts a 54 Mbps data rate and is backwards compatible with 802.11b wireless LAN systems.

It's easier and much more cost effective to deploy the wireless network using Wireless Distribution System (WDS) technology. This employs a cost savings from 30-50% for telecom operators, ISPs and enterprise users.

The RedFire Series Radios also make use of powerful security management features by supporting WEP 64/128 bit encryption, WEP ASCII/Hex, 802.1x Authentication (EAP), MAC filtering, hidden SSID functionality, client isolation, WPA-PSK and WPA encryption.

### applications

Long distance PTP or PTMP bridging.  
Wide area hotspots.  
Redundant links between buildings.  
Cost effective alternative to wired networks.  
Dedicated ISP connections for high-reliability subscribers.  
Enterprises or Institutional LAN and PBX extension.

### large coverage areas

Output power up to 1W and low noise figures extend the transmission capabilities and broaden the coverage areas.

### impressive 54Mbps data rate at long range

Unique technology breaks the distance barriers of 802.11g standards. We've succeeded in extending the signal up to 2~12 miles (3~20 Km) using a 54Mbps (22Mbps effective) data rate.

### manageability

Through your web browser, the RedFire Series Radios are fully manageable both locally and remotely. In addition, built-in SNMP support allows ISP and enterprise operators expand their networks' infrastructure with ease.

### flexibility

The RedFire Series Radios can play various roles in your wireless network due to their detachable antenna design. This allows you to use the appropriate antenna for your application and makes deployment much more flexible.

### reliability

The RedFire Series Radios are among the most reliable outdoor radios you can find. The IP68 certified outdoor housing protects the radio from the elements, and the robust design of the radio's functionality make this a stable platform for your data.

RADIO		
Frequency	2.4 GHz ISM Band	
Standards	IEEE 802.11b / 802.11g compatible	
Operating Channels	FCC (USA)	1~11 channels
	ETSI (EUR)	1~13 channels
	MKK (JAPAN)	1~14 channels
	CHINA	1~11 channels
Output Power	200mW (RedFire 200)	
	1 Watt (RedFire 1000)	
Receive Sensitivity (BER 1E10 <sup>-6</sup> )	IEEE 802.11g	IEEE 802.11b
	Sensitivity @ Packet Error Rate ≤ 10%	
	-72dBm @ 54Mbps	-88dBm @ 11Mbps
	-73dBm @ 48Mbps	-90dBm @ 5.5Mbps
	-77dBm @ 36Mbps	-92dBm @ 2Mbps
	-81dBm @ 24Mbps	-95dBm @ 1Mbps
	-84dBm @ 18Mbps	
	-86dBm @ 12Mbps	
	-88dBm @ 9Mbps	
-89dBm @ 6Mbps		
Modulation	OFDM / DSSS	
Range	Over 12 miles (20 Km)	

INTERFACES	
RF (antenna) connector	N-type Jack (RedFire e Series) Integrated 18 dBi Panel Antenna (RedFire i Series)
Ethernet	IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx) / IEEE 802.1d (spanning tree protocol)

MANAGEABILITY	
Management and Setup	Web-based configuration
SNMP agents	MIB II
Operating Modes	AP / WDS / Smart WDS
Protocol	TCP/IP, IPX/SPX, NetBEUI
Network Architecture	Hotspot, PTP / PTMP, Repeater
DHCP Supports	DHCP client

SECURITY	
Data Encryption	WEP 64/128 bit encryption, WPA-PSK, WPA
Authentication	802.1x Auth. (EAP)
Authorization	MAC Address Access Filter
Advanced Security	Hidden SSID, Layer 2 Isolation (Client Isolation)

ENVIRONMENT	
Operating Temperature	-20 C ~ 55 C
Storage Temperature	-30 C ~ 70 C
Humidity	95% non-condensing

WARRANTY	
1 year	

POWER SUPPLY	
AC 100-264 V, DC 24 V, 50-60Hz	