



RedFire 2.4GHz Wireless



Description

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.

Features

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 (Max.) 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.





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Specifications

Frequency	2.4GHz ISM Band	
Standards	IEEE 802.11b/802.22g compatible	
Operating Channels	FCC (USA)	1~11 Channels
	ETSI (EUR)	1~13 Channels
	MKK (JAPAN)	1~14 Channels
	China	1~11 Channels
Output Power	RedFire 200 (200mW) RedFire 1000 (1 watt)	
Receive Sensitivity (BER 10-6)	802.11g	802.11b
	Sensitivity @ Packet Error Rate ≤ 10%	Sensitivity @ Packet Error Rate ≤ 8%
	-72 dBm @ 54Mbps	-88dBm @ 11Mbps
	-73 dBm @ 48Mbps	-90dBm @ 5.5Mbps
	-77 dBm @ 36Mbps	-92dBm @ 2Mbps
	-81 dBm @ 24Mbps	-95dBm @ 1Mbps
	-84 dBm @ 18Mbps	
	-86 dBm @ 12Mbps	
	-88 dBm @ 9Mbps	
	-89 dBm @ 6Mbps	
Modulation	OFDM / DSSS	
Range	Up to 12 miles (20 Km)	
INTERFACES		
RF (antenna) connector	N-type (Jack)	
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	
Operating Modes	AP / WDS / Smart WDS	
Protocol	TCP/IP, IPX/SPX, NetBEUI	
Network Architecture	Point-to-Point / Point-to-Multipoint (CPE) / Repeater	
DHCP Supports	DHCP client	
SECURITY		
Data Encryption	WEP 64/128/152-bit encryption, WPA-PSK, WPA	
Authentication	802.1x Auth. (EAP)	
Authorization	MAC Filtering	
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	
WEIGHT	1.8 kg (3.96 lbs) RedFire 200e 2.2 kg (4.85 lbs) RedFire 1000e 2.3 kg (5.07 lbs) RedFire 200i 2.8 kg (6.17 lbs) RedFire 1000i	
PHYSICAL DIMENSIONS (W x L x H)	250 x 259 x 75 mm—9.9 x 10.2 x 3. in. RedFire e Series 296 x 331 x 105 mm—11.7 x 13 x 4.1 in. RedFire i Series	

Specifications subject to change without notice

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