



Lanfair Systems introduces its integrated wireless 2.4GHz system built with the highest quality components.

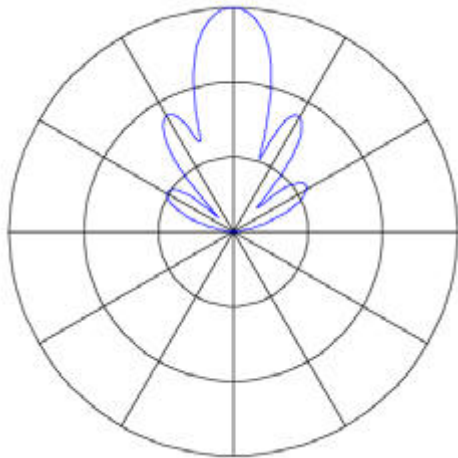
- Low Profile
- Ruggedized for Outdoors
- Standard 802.11b 802.11g
- High quality Mikrotik RB133C
- External waterproof Ethernet connection
- QOS
- 19dbi Gain
- POE power supply included
- Articulating pole mount bracket included



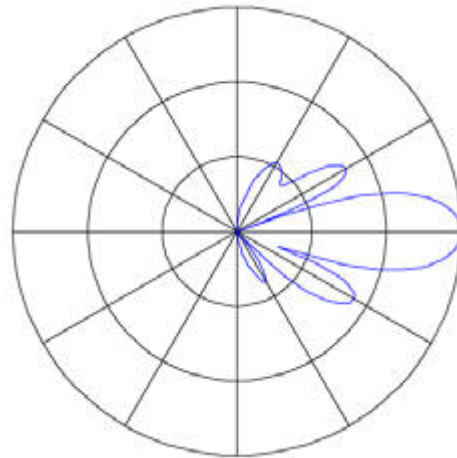
#### Antenna Enclosure Mechanical and Environmental Specifications

Length x Width x Depth	15.4in x 15.4in x 1.7in (391mm x 391mm x 43mm)
Enclosure	Gray, Powder-coated die-cast aluminum
Radome	Gray, UV stabilized ABS plastic
Wind Survivability	125mph (201kph)
Wind Load	1.23ft <sup>2</sup> (0.12m <sup>2</sup> )
Operating Temperature Range	-49°F to +149°F (-45°C to +65°C)
Pole Mount Diameter Range	0.75in to 3.0in (19mm to 76mm)
Frequency Range	2.4-2.5GHz
Gain	19dBi
3dB Beamwidth Vertical/Horizontal	18deg/18deg
Polarization	Single linear, horizontal or vertical
Front-to-Back Ratio	>30 dB
Cross Polarization	>30 dB
Power Rating	30 watts
Lighting Protection	DC ground

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RF Pattern Horizontal



RF Pattern Vertical

Part Numbers	Description
LFS-19R52-24	19dbi 2.4GHz System with Mikrotik R52
LFS-19R52H-24	19dbi 2.4GHz System with Mikrotik R52H
LFS-19SR2-24	19dbi 2.4GHz System with Ubiquiti Networks SR2
LFS-19XR2-24	19dbi 2.4GHz System with Ubiquiti Networks XR2

**Part number LFS-19R52-24**

<b>Security:</b>	Hardware 64 and 128 bit WEP; Hardware TKIP and AES-CCM encryption; 802.1x WPA authentication
<b>Modulation:</b>	802.11b+g: DSSS, OFDM for data rate >30Mbps
<b>Frequencies:</b>	
802.11b/g	2.312 - 2.497 (5 MHz step);
<b>Output Power / Receive Sensitivity:</b>	
IEEE 802.11b:	19dBm/-95dBm @ 1Mbps 19dBm/-90dBm @ 11Mbps
IEEE 802.11g:	18dBm/-90dBm @ 6Mbps 15dBm/-73dBm @ 54Mbps
<b>Transfer Data Rate</b>	802.11b:11,5.5,2,1 Mbps, auto-fallback 802.11g(Normal mode):54,48,36,24,18,12,9,6 Mbps, auto-fallback 802.11g(Turbo mode):108,96,72,48,36,24,18,12 Mbps, auto-fallback

**Part Number LFS-19R52H-24**

<b>Security:</b>	Hardware-based 64/128 bit WEP, TKIP and AES-CCM encryption, WPA, WPA2, 802.1x
<b>Modulation:</b>	802.11b+g: DSSS, OFDM for data rate >30Mbps
<b>Frequencies:</b>	
802.11b/g	2.192 - 2.507 (5 MHz step); 2.224 - 2.539 (5MHz step)
<b>Output Power / Receive Sensitivity*:</b>	
IEEE 802.11b:	25dBm / -92dBm @ 1Mbps 25dBm / -87dBm @ 11Mbps
IEEE 802.11g:	25dBm / -90dBm @ 6Mbps 20dBm / -70dBm @ 54Mbps
<b>Transfer Data Rate</b>	802.11b:11,5.5,2,1 Mbps, auto-fallback 802.11g(Normal mode):54,48,36,24,18,12,9,6 Mbps, auto-fallback 802.11g(Turbo mode):108,96,72,48,36,24,18,12 Mbps, auto-fallback

## Part Number LFS-19SR2-24

Chipset	Atheros, 4th Generation, AR5213
Radio Operation	IEEE 802.11b/g, 2.4GHz
Temperature Range	-40C to +80C
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP
Data Rates	6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
TX Channel Width	5MHz / 10MHz / 20MHz / 40MHz

### TX SPECIFICATIONS

### RX SPECIFICATIONS

DataRate	TX Power	Tolerance	DataRate	Sensitivity	Tolerance
1Mbps	26 dBm	+/-1dB	1Mbps	-97 dBm	+/-1dB
2Mbps	26 dBm	+/-1dB	2Mbps	-96 dBm	+/-1dB
5.5Mbps	26 dBm	+/-1dB	5.5Mbps	-95 dBm	+/-1dB
11Mbps	26 dBm	+/-1dB	11Mbps	-92 dBm	+/-1dB
6Mbps	26 dBm	+/-1dB	6Mbps	-94 dBm	+/-1dB
9Mbps	26 dBm	+/-1dB	9Mbps	-93 dBm	+/-1dB
12Mbps	26 dBm	+/-1dB	12Mbps	-91 dBm	+/-1dB
18Mbps	26 dBm	+/-1dB	18Mbps	-90 dBm	+/-1dB
24Mbps	26 dBm	+/-1dB	24Mbps	-86 dBm	+/-1dB
36Mbps	24 dBm	+/-1dB	36Mbps	-83 dBm	+/-1dB
48Mbps	22 dBm	+/-1dB	48Mbps	-77 dBm	+/-1dB
54Mbps	21 dBm	+/-1dB	54Mbps	-74 dBm	+/-1dB

## Part Number LFS-19XR2-24

Chipset	Atheros, 6th Generation, AR5414
Radio Operat	IEEE 802.11b/g, 2.4GHz
Interface	32-bit mini-PCI Type IIIA
Operation Vo	3.3VDC
Temperature	-45C to +90C (extended temp version up to +95C)
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152bit WEP
Data Rates	6Mbps, 9Mbps, 12Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
TX Channel V	5MHz / 10MHz / 20MHz / 40MHz

### TX SPECIFICATIONS

### RX SPECIFICATIONS

DataRate	TX Power	Tolerance	DataRate	Sensitivity	Tolerance
1Mbps	28 dBm	+/-1dB	1Mbps	-97 dBm	+/-1dB
2Mbps	28 dBm	+/-1dB	2Mbps	-96 dBm	+/-1dB
5.5Mbps	28 dBm	+/-1dB	5.5Mbps	-95 dBm	+/-1dB
11Mbps	28 dBm	+/-1dB	11Mbps	-92 dBm	+/-1dB
6Mbps	28 dBm	+/-1dB	6Mbps	-94 dBm	+/-1dB
9Mbps	28 dBm	+/-1dB	9Mbps	-93 dBm	+/-1dB
12Mbps	28 dBm	+/-1dB	12Mbps	-91 dBm	+/-1dB
18Mbps	28 dBm	+/-1dB	18Mbps	-90 dBm	+/-1dB
24Mbps	28 dBm	+/-1dB	24Mbps	-86 dBm	+/-1dB
36Mbps	26 dBm	+/-1dB	36Mbps	-83 dBm	+/-1dB
48Mbps	25 dBm	+/-1dB	48Mbps	-77 dBm	+/-1dB
54Mbps	24 dBm	+/-1dB	54Mbps	-74 dBm	+/-1dB