

Remote Outdoor Router Extreme Series
OR-19P OR-24P OR-19PX OR-24PX



**30 Mbps 19/ 24 Dbi
 Extreme Distance
 Panel Integrated Radio**

The OR-19/24P is an ideal cost-effective outdoor Subscriber unit for ISP service companies, and corporate branches. Designed from the beginning to give carrier class type services, OR19/24 can do long distance links in the toughest environments with outstanding stability.

It can be used as a stand-alone Base Station Client, or for point-to-point links. The OR19/24P(A) is Equipped with one Ethernet port, to connect to a hub, a switch or an Access Point without the need to install a router. This feature represents significant savings on hardware costs.

OR19/24P uses OFDM/ TDMA technology operating in the 5.1 to 5.8 GHz license free bands. Because OFDM can take advantage of reflected RF signals, it is now possible to connect locations you may have thought were inaccessible due to line of sight barriers.

Most features of the OR-19/24P are pre-configured and automatically adapt to the environment, making configuration and use very simple. The OR-19/24P supports VLAN, transparent Bridge and comes with robust management features, such as NAT, DHCP Client, DHCP Server, IP Routing, RIP2 and SNMP. These features, cobined with TDMA/NSTREME, and its processing capacity make the OR 19/24P a unique product in the outdoor wireless market.

Hardware Highlights

- 300 MHz Processor, 32 RAM
- 19 or 24 dBi Embedded Patch Antenna
- OFDM/ TDMA
- NEMA4. Engineered for reliability even in the hottest regions of the world

CClass Software (PTP)

- Transparent MAC Layer operation
- VLAN support
- Learning bridge that supports forwarding and filtering
- IP Routing
- Spanning Tree Protocol
- VoIP Support
- QoS

Nstreme features:

- Polling
- Long Distance throughput
- Super packet Aggregation

Radio Features

- Full bandwidth management/ CIR/ MIR
- 30 Mbs real throughput
- No FCC license required
- **19P SERIES:** 19 dBi, 16 degrees beam width antenna
- **24P SERIES:** 24dBi, 8 degrees beam width antenna
- 4.9 GHz to 6 Ghz user-selectable operating sub-channels
- Radio link and antenna alignment diagnostics
- WEP hardware encryption standard
- Operating range up to 10 miles.
- Output Power 200 mW
- Output Power 600 mW (XSeries)

Ethernet Features:

- 10/ 100 Dual Ethernet
- Power over Ethernet
- 802.3 Compliant

**Wifi Open link option
 Nstreme Long distance option
 TDMA V3 Option**

OR 19/24P (X)



Wireless Carrier Class Solutions

Powered by MikroTik

www.wi-corp.com

OR-19/24P-19/24PX Specifications

Firmware Features

- Routing RIP 1 / 2, OSPF v2, BGP v4 (equal cost multi-path routing, policy based routing, firewall marked packet routing)
- PPP (ISDN, PPPoE, modem pool)
- RADIUS authorization and accounting
- AES Encryption
- Bridging (Client Only)
- Stateful Firewall and NAT
- VLAN
- DHCP
- Tunnels (PPTP (VPN), IPsec, EoIP, IPsec)
- IP traffic accounting, firewall actions logging
- Bandwidth Management (per IP / protocol / subnet / port, CBQ, RED, SFQ, byte FIFO, packet FIFO)
- Tools (ping, traceroute, bandwidth test, ping flood, telnet)
- DNS cache
- Web cache
- SNMP, NTP (Network Time Protocol)
- Remote administration and upgrading
- TDMA FEATURES: Time Duplexing Mechanism Polling, Packet Management**
- LONG DISTANCE FEATURES: Polling, Super packet aggregation**

Radio Features

Spread spectrum method OFDM 80211 a+ wavemax nstreme

Frequency (User selectable): 5.1 GHz – 5.3 GHz- 5.8 GHz

Channels (User selectable) 5120- 6100 (5 MHz Steps)

5.8 GHz Power and sensitivity chart:

200 Mw OR11- 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6

5.8 GHz Wireless transmission rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6

5.8 GHz Radio transmit power 23 dBm nominal @ 6 Mb/sec, 17 dBm nominal @ 54 Mb/sec

5.8 GHz Radio receive sensitivity -97 dBm @ 6 Mb/sec, -74 dBm @ 150 Mb/sec

X series: 600 Mw Amplified OR11X- 5.8 GHz Wireless t. rates (Mb/sec) 108, 54, 48, 36, 24, 18, 12, 9, 6

5.8 GHz Radio transmit power 28 dBm

5.8 GHz Radio receive sensitivity -94 dBm @ 6 Mb/sec, -74 dBm @ 54 Mb/sec

System Hardware Features

Dimensions NEMA4 Enclosure: 9" x 7" x 3.5" (26.7 cm x 26.7 cm x 6.7 cm) (60 cm* 60 cm* 6.7 cm)

Weight 3.5 lbs.

5.1 to 5.8 GHz 19 or 24 dBi Patch antenna.

Shipping weight (complete package) Approx. 26 lbs. (standard package)

32 MB Memory- 300 MHz processor

Operating temperature -30°C to 55°C (-20°F to 111°F)

Storage temperature -30°C to 75°C (-20°F to 167°F)

Humidity 0% to 100% (Non-immersion rain)

Wall wart power supply included Yes, 110/240 VAC

Power design Power over Ethernet

Power required (at radio) +15 to + 24 VDC (from included power supply)

Wired Network Interface (at PoE injector) RJ-45 10/100Base-T

Certification FCC

Warranty 1 year depot

More Information: info@wi-corp.com

OR 19/24P (X)