



Wireless Carrier Class Solutions

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## Remote Outdoor Router

### OR-14PM *\_\_\_\_\_ The TDMA Revolution \_\_\_\_\_*



#### 100 Mbps 5.8 GHz 14dBi Panel Integrated Radio

The OR-14P 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, OR14P 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 OR14P 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.

OR14P uses OFDM/ MIMO 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-14P are pre-configured and automatically adapt to the environment, making configuration and use very simple. The OR-14P supports VLAN, transparent Bridge and comes with robust management features, such as NAT, DHCP Client, DHCP Server, IP Routing, RIP2 and SNMP. These features plus TDMA and its processing capacity make the OR 14P a unique product in the outdoor wireless market.

#### Nv2 Wireless protocol based on TDMA

TDMA(Time Division Multiple Access) is a channel access method for shared medium networks. It allows several users to share the same frequency channel by dividing the signal into different time slots. The users transmit in rapid succession, one after the other, each using his own time slot. This allows multiple stations to share the same transmission medium (e.g. radio frequency channel) while using only a part of its channel capacity.

The most important benefits of Nv2 are: **Increased speed, More client connections in PTM environments, Lower latency, No distance limitations, Possibility to set CPE association priorities, so when AP switches to Nv2, all CPEs switch too, allowing easy migration and upgrade**

Nv2 enables a special QoS mechanism to give priority to small packets, and improves link latency

#### Hardware Highlights

- 400 MHz- 32 RAM Processor
- 14 dBi Embedded Patch Antenna
- OFDM/ MIMO
- NEMA4. Engineered for reliability even in the hottest regions of the world

#### Radio Features

- Full bandwidth management/ CIR/ MIR
- 150 Mbps real throughput
- No FCC license required
- 14 dBi, 25 degrees beam width antenna
- 5.1 GHz to 5.8 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

#### Ethernet Features:

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

**Wifi Open link option  
Nstream Long distance  
VStream TDMA option  
100 Mbps MIMO Option**

**OR-14 PM**



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## 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), IPIP, 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
- LONG DISTANCE FEATURES: Polling, Super packet aggregation**

### Radio Features

Spread spectrum method OFDM/MIMO/ TDMA 80211a/n  
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) 150,108, 54, 48, 36, 24, 18, 12, 9, 6

5.8 GHz Radio transmit power 23 dBm nominal @ 6 Mb/sec, 17 dBm nominal @ 150 Mb/sec

5.8 GHz Radio receive sensitivity -92 dBm @ 6 Mb/sec, -74 dBm @ 150 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 14 dBi Patch antenna.

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

32 MB Memory- 400 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](mailto:info@wi-corp.com)**

**OR - 14 PM**