


# InfiMAN 2x2 R5000-Mmxb/38.300.2x200.2x14

<b>Description</b>	InfiMAN 2x2 R5000-Mmxb/38.300.2x200.2x14, 3 GHz base station sector, net throughput up to 250 Mbps, integrated dual-pol sectorial antenna, 14 dBi, 90x8 deg
<b>Net throughput</b>	up to 250 Mbps
<b>Recommended distances</b>	up to 20 km
<b>Radio technology</b>	MIMO 2x2 (OFDM 64/128)
<b>Modulation coding schemes</b>	from BPSK 1/2 to QAM64 5/6
<b>Transmit power</b>	up to 23 dBm
<b>Receiver sensitivity</b>	down to -90 dBm
<b>Frequency range</b>	3700-3900 MHz
<b>Channel width</b>	3.5, 5, 7, 10, 14, 15, 20, 28, 30, 40 MHz
<b>Center frequency adjustment step</b>	125 kHz
<b>Duplex scheme</b>	TDD
<b>Antenna</b>	14 dBi
<b>Wired Interfaces</b>	1x GigabitEthernet (RJ45)



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Consumption	up to 20 W					
Power options	110-240 VAC @ 50/60 Hz, ±43..56 VDC					
Outdoor Unit (ODU)	371 x 371 x 90 mm, 3.4 kg					
						
Part Number Options	Prefix	Freq. Band	Bitrate	Output Power	Ant.	Capacity
	<i>R5000-Mmxb</i>	<i>38</i>	<i>300</i>	<i>2x200</i>	<i>2x14</i>	<i>300</i>
Part Number Example	R5000-Mmxb/38.300.2x200.2x14					
Packing List	<ul style="list-style-type: none"> <li>- Outdoor unit R5000-Mmxb/38.300.2x200.2x14 - 1 pcs.</li> <li>- Power Supply IDU-BS-G - 1 pcs.</li> <li>- Power Cord - 1 pcs.</li> <li>- Connector - 1 pcs.</li> <li>- Standard RJ-45 connector - 1 pcs.</li> <li>- Shielded RJ-45 connector - 1 pcs.</li> <li>- RJ-45 Plug Cap - 1 pcs.</li> <li>- MONT-KIT-85 Mounting kit - 1 pcs.</li> <li>- Quick Start Guide - 1 pcs.</li> </ul>					



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## Features

### RADIO

- ▶ Voice/RTP Aware Superpacketting
- ▶ DFS
- ▶ Automatic Bitrate Control
- ▶ Automatic Transmit Power Control
- ▶ Automatic Distance Learning
- ▶ Channel Time Adjustment
- ▶ Spectrum Analyzer mode
- ▶ Channel testing tools

### NETWORKING

- ▶ Ethernet-over-IP and IP-over-IP tunneling
- ▶ ARP protocol support
- ▶ MAC/IP filtering
- ▶ Full-fledged 2nd layer switch
- ▶ RIPv2 / OSPFv2 /static routing
- ▶ L2/L3 Firewall
- ▶ NAT (multipool, H.323-aware)
- ▶ DHCP client/server/relay

### MANAGEMENT FEATURES

- ▶ Various Management Protocols: HTTP, HTTPS, Telnet, SSH, SNMP v1/2c/3 (MIB-II and proprietary MIBs)
- ▶ Graphical User Interface
- ▶ LED Indication: power status, wireless and wired link status, signal level
- ▶ Antenna alignment tool
- ▶ Automatic software update
- ▶ Online monitoring with proprietary EMS InfiMONITOR.

### QUALITY-OF-SERVICE

- ▶ 17 priority queues
- ▶ IEEE 802.1p support
- ▶ IP TOS / DiffServ support
- ▶ Full voice support
- ▶ Traffic limiting (absolute, relative, mixed)
- ▶ Traffic redirection



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## Features

### ENVIRONMENTAL

- ▶ **Outdoor Units:**
  - operating temperature range -40..+60 °C, (can be extended to -55..+60 °C, models with "t" index in PN), 100% humidity, condensing
  - IP66/IP67 compliant water and dust protection
  - wind load: 200 kph, survival
- ▶ **Indoor Unit:**
  - 0..+40 °C, 95% humidity, non-condensing

### SECURITY FEATURES

- ▶ **Storm/flood protection**
- ▶ **Password protection**
- ▶ **Secure command-line access via SSH protocol**

### MAC

- ▶ **ARP support**
- ▶ **Proactive channel testing**
- ▶ **Pseudo-radio interface:**
  - unique Infinet Wireless feature to join Infinet networks via 3rd party equipment
- ▶ **Automatic over-the-air firmware upgrade**

### STANDARD COMPLIANCE

- ▶ **Radio**
  - EN 301 893 v.2.1.1
  - EN 302 502 v.2.1.1
  - FCC part 15.247
- ▶ **EMC**
  - EN 301 489-1
  - EN 301 489-17
  - FCC Part 15 Class B
- ▶ **Safety**
  - ETSI EN 60 950-1:2006
- ▶ **RoHS**
  - Directive 2011/65/EU

