


# InfiMAN 2x2 R5000-Mmxb/32.300.2x200.2x14

|   |   |
|---|---|
| <b>Description</b>                      | InfiMAN 2x2 R5000-Mmxb/32.300.2x200.2x14, 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 -88 dBm   |
| <b>Frequency range</b>                  | 3100-3400 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)   |



## InfiMAN 2x2 R5000-Mmxb/32.300.2x200.2x14

|                     |   |            |            |              |             |            |
|---------------------|---|------------|------------|--------------|-------------|------------|
| 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>32</i>  | <i>300</i> | <i>2x200</i> | <i>2x14</i> | <i>300</i> |
| Part Number Example | R5000-Mmxb/32.300.2x200.2x14  |            |            |              |             |            |
| Packing List        | <ul style="list-style-type: none"> <li>- Outdoor unit R5000-Mmxb/32.300.2x200.2x14 - 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> |            |            |              |             |            |



# InfiMAN 2x2 R5000-Mmxb/32.300.2x200.2x14

## 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



# InfiMAN 2x2 R5000-Mmxb/32.300.2x200.2x14

## 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

