


# InfiMAN 2x2 R5000-0mxb/5X.300.2x500

|   |  |
|---|--|
| <b>Description</b>                      | InfiMAN 2x2 R5000-0mxb/5X.300.2x500, 5 GHz base station sector, net throughput up to 250 Mbps, 2x N-type (F) connectors for external antenna |
| <b>Net throughput</b>                   | up to 250 Mbps   |
| <b>Recommended distances</b>            | up to 40+ 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 27 dBm   |
| <b>Receiver sensitivity</b>             | down to -94 dBm  |
| <b>Frequency range</b>                  | 4900-6050 MHz  |
| <b>Channel width</b>                    | 5, 10, 20, 40 MHz  |
| <b>Center frequency adjustment step</b> | 125 kHz  |
| <b>Duplex scheme</b>                    | TDD  |
| <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)  | 240 x 240 x 57 mm, 2.2 kg  |            |            |              |            |
|                     |    |            |            |              |            |
| Part Number Options | Prefix   | Freq. Band | Bitrate    | Output Power | Capacity   |
|                     | <i>R5000-0mxb</i>  | <i>5X</i>  | <i>300</i> | <i>2x500</i> | <i>300</i> |
| Part Number Example | R5000-0mxb/5X.300.2x500  |            |            |              |            |
| Packing List        | <ul style="list-style-type: none"> <li>- Outdoor unit R5000-0mxb/5X.300.2x500 - 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, telnet, 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

- ▶ **Dynamic adaptive polling:**
  - Centralized marker grant mode
  - Dynamically takes into account channel activity
  - Permanent 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.1.7.1
  - EN 302 502 v.1.2.1
  - 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

