

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


3100-3400 MHz

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|----------------------------------|---|
| Description | InfiMAN 2x2 R5000-Mmxb/32.300.2x200.2x14, 3 GHz base station sector, net throughput up to 240 Mbps, integrated dual-pol sectorial antenna, 14 dBi, 90x8 deg |
| Performance | up to 240 Mbps |
| Recommended distances | up to 20 km |
| Radio technology | MIMO 2x2 (OFDM 64/128) |
| Modulation types | from BPSK 1/2 to QAM64 5/6 |
| Transmit power | up to 23 dBm |
| Receiver sensitivity | down to -98 dBm |
| Frequency range | 3100-3400 MHz |
| Channel width | 3.5, 5, 7, 10, 14, 15, 20, 28, 30, 40 MHz |
| Center frequency adjustment step | 125 kHz |
| Duplex scheme | TDD |
| Antenna | 14 dBi |
| Wired Interfaces | GigabitEthernet |



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|---------------------|--|------------|------------|--------------|-------------|------------|
| Consumption | up to 12 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 | | | | | |



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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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ENVIRONMENTAL

- ▶ **Outdoor Units: -40..+60C, 100% humidity, condensing**
- ▶ **Indoor Unit: 0..+40C, 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**
 - ET SI EN 60 950-1:2006
- ▶ **RoHS**
 - Directive 2002/95/EC

