# InfiMAN 2x2 R5000-Smnc/38.300.2x200.2x22

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|---|---|
| Description | InfiMAN 2x2 R5000-Smnc/38.300.2x200.2x22, 3 GHz subscriber terminal, net throughput up to 180 Mbps, integrated dual-pol antenna, 22 dBi, 12x12 deg |
| Net throughput | up to 180 Mbps |
| Recommended distances | up to 12 km |
| Radio technology | MIMO 2x2 (OFDM 64/128) |
| Modulation coding schemes | from BPSK 1/2 to QAM64 5/6 |
| Transmit power | up to 23 dBm |
| Receiver sensitivity | down to -90 dBm |
| Frequency range | 3700-3900 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 | 22 dBi |
| Wired Interfaces | 2x FastEthernet (PoE out) |

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| | |
|---|---|
| Consumption | up to 15 W |
| Power options | 110-240 VAC @ 50/60 Hz, +9..56 VDC |
| Outdoor Unit (ODU) | 371 x 371 x 83 mm, 2.8 kg |

| Part Number Options | Prefix | Freq. Band | Bitrate | Output Power | Ant. | Capacity |
|---|---|---|---|---|---|---|
| | R5000-Smnc | 38 | 300 | 2x200 | 2x22 | 8 20 50 300 |

| | |
|---|---|
| Part Number Example | R5000-Smnc/38.300.2x200.2x22\|50 |
| Packing List | – Outdoor unit R5000-Smnc/38.300.2x200.2x22 - 1 pcs.<br>– Power Supply IDU-CPE(48V) - 1 pcs.<br>– Power Cord - 1 pcs.<br>– Cable Gland - 2 pcs.<br>– Standard RJ-45 connector - 2 pcs.<br>– Shielded RJ-45 connector - 1 pcs.<br>– RJ-45 Plug Cap - 1 pcs.<br>– MONT-KIT-85 Mounting kit - 1 pcs.<br>– Quick Start Guide - 1 pcs. |

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## Features

### RADIO

▸ Voice/RTP Aware Superpacketing

▸ 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

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