


InfiMAN 2x2 R5000-Smn/5X.300.2x300.2x28

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|---|---|
| Description | InfiMAN 2x2 R5000-Smn/5X.300.2x300.2x28, 5 GHz subscriber terminal, net throughput up to 180 Mbps, integrated dual-pol antenna, 28 dBi, 5x5 deg |
| Net throughput | up to 180 Mbps |
| Recommended distances | up to 20 km |
| Radio technology | MIMO 2x2 (OFDM 64/128) |
| Modulation coding schemes | from BPSK 1/2 to QAM64 5/6 |
| Transmit power | up to 25 dBm |
| Receiver sensitivity | down to -91 dBm |
| Frequency range | 4900-6050 MHz |
| Channel width | 5, 10, 20, 40 MHz |
| Center frequency adjustment step | 125 kHz |
| Duplex scheme | TDD |
| Antenna | 28 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) | 600 x 600 x 68 mm, 5.8 kg | | | | | |
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| Part Number Options | Prefix | Freq. Band | Bitrate | Output Power | Ant. | Capacity |
| | <i>R5000-Smn</i> | <i>5X</i> | <i>300</i> | <i>2x300</i> | <i>2x28</i> | <i>300</i> |
| Part Number Example | R5000-Smn/5X.300.2x300.2x28 | | | | | |
| Packing List | <ul style="list-style-type: none"> - Outdoor unit R5000-Smn/5X.300.2x300.2x28 - 1 pcs. - Power Supply IDU-CPE(48V) - 1 pcs. - Power Cord - 1 pcs. - Cable Gland - 2 pcs. - Standard RJ-45 connector - 2 pcs. - Shielded RJ-45 connector - 1 pcs. - RJ-45 Plug Cap - 1 pcs. - MONT-KIT-85S Mounting kit - 1 pcs. - 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: HTTPS, HTTP, 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

