


InfiMAN 2x2 R5000-Mmxb/5X.300.2x500.2x16

Description	InfiMAN 2x2 R5000-Mmxb/5X.300.2x500.2x16, 5 GHz base station sector, net throughput up to 250 Mbps, integrated dual-pol sectorial antenna, 16 dBi, 90x8 deg
Net throughput	up to 250 Mbps
Recommended distances	up to 30+ km
Radio technology	MIMO 2x2 (OFDM 64/128)
Modulation coding schemes	from BPSK 1/2 to QAM64 5/6
Transmit power	up to 27 dBm
Receiver sensitivity	down to -94 dBm
Frequency range	4900-6050 MHz
Channel width	5, 10, 20, 40 MHz
Center frequency adjustment step	125 kHz
Duplex scheme	TDD
Antenna	16 dBi
Wired Interfaces	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)	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>5X</i>	<i>300</i>	<i>2x500</i>	<i>2x16</i>	<i>300</i>
Part Number Example	R5000-Mmxb/5X.300.2x500.2x16					
Packing List	<div>– Outdoor unit R5000-Mmxb/5X.300.2x500.2x16 - 1 pcs.</div> <div>– Power Supply IDU-BS-G - 1 pcs.</div> <div>– Power Cord - 1 pcs.</div> <div>– Connector - 1 pcs.</div> <div>– Standard RJ-45 connector - 1 pcs.</div> <div>– Shielded RJ-45 connector - 1 pcs.</div> <div>– RJ-45 Plug Cap - 1 pcs.</div> <div>– MONT-KIT-85 Mounting kit - 1 pcs.</div> <div>– Quick Start Guide - 1 pcs.</div>					



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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

