


InfiMAN 2x2 R5000-Qmxb/5X.300.2x300.2x21

Description	InfiMAN 2x2 R5000-Qmxb/5X.300.2x300.2x21, 5 GHz base station sector, net throughput up to 250 Mbps, integrated dual-pol beamforming antenna, 21 dBi, 90x8 deg (20 deg Az-steerable beam)
Net throughput	up to 250 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	10, 20, 40 MHz
Center frequency adjustment step	1 MHz
Duplex scheme	TDD
Antenna	21 dBi
Wired Interfaces	1x GigabitEthernet (RJ45)



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Consumption	up to 35 W				
Power options	90-240 VAC ~ @ 50/60 Hz, ±43..56 VDC				
Outdoor Unit (ODU)	371 x 371 x 90 mm, 4.4 kg				
					
Part Number Options	Prefix	Freq. Band	Bitrate	Output Power	Ant.
	<i>R5000-Qmxb</i>	<i>5X</i>	<i>300</i>	<i>2x300</i>	<i>2x21</i>
Part Number Example	R5000-Qmxb/5X.300.2x300.2x21				
Packing List	<div>– Outdoor unit R5000-Qmxb/5X.300.2x300.2x21 - 1 pcs.</div> <div>– Power Supply IDU-BS-G(60W) - 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

- ▶ Dynamic Frequency Selection
- ▶ Automatic Bitrate Control
- ▶ Automatic Transmit Power Control
- ▶ Automatic Distance Learning
- ▶ Channel Time Adjustment

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: Li-2 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

- ▶ **Adaptive TDMA air protocol:**
 - Dynamic and fixed air frame duration
 - Subscriber activity aware scheduling
 - 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 (pending)**
 - 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

