

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


4900-6050 MHz

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
Performance	up to 180 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 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 7 W					
Power options	110-240 VAC @ 50/60 Hz +9..56 VDC					
Outdoor Unit (ODU)	600 x 600 x 68 mm, 5.8 kg					
						
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					



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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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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**
 - ETSI EN 60 950-1:2006
- ▶ **RoHS**
 - Directive 2002/95/EC

