InfiMAN 2x2 R5000-Smnb/5X.300.2x500.2x16
4900-6050 MHz

Description	InfiMAN 2x2 R5000-Smnb/5X.300.2x500.2x16, 5 GHz base station sector, net throughput up to 150 Mbps, integrated dual-pol sectorial antenna, 16 dBi, 90x8 deg
Performance	up to 150 Mbps
Recommended distances	up to 15 km
Radio technology	MIMO 2x2 (OFDM 64/128)
Modulation types	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	2x FastEthernet (PoE out)

![InfiNet wireless]

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Consumption	up to 12 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-Smnb	5X	300	2x500	2x16	300

Part Number Example	R5000-Smnb/5X.300.2x500.2x16

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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: -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