

# InfiMAN 2x2 R5000-Lmn/5X.300.2x500


## 4900-6050 MHz

<b>Description</b>	InfiMAN 2x2 R5000-Lmn/5X.300.2x500, 5 GHz subscriber terminal, net throughput up to 180 Mbps, 2x N-type (F) connectors for external antenna
<b>Performance</b>	up to 180 Mbps
<b>Recommended distances</b>	up to 30+ km
<b>Radio technology</b>	MIMO 2x2 (OFDM 64/128)
<b>Modulation types</b>	from BPSK 1/2 to QAM64 5/6
<b>Transmit power</b>	up to 27 dBm
<b>Receiver sensitivity</b>	down to -94 dBm
<b>Frequency range</b>	4900-6050 MHz
<b>Channel width</b>	5, 10, 20, 40 MHz
<b>Center frequency adjustment step</b>	125 kHz
<b>Duplex scheme</b>	TDD, Hybrid-FDD
<b>Wired Interfaces</b>	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)	240 x 240 x 50 mm, 1.6 kg				
					
Part Number Options	Prefix	Freq. Band	Bitrate	Output Power	Capacity
	<i>R5000-Lmn</i>	<i>5X</i>	<i>300</i>	<i>2x500</i>	<i>8</i> <i>20</i> <i>50</i> <i>300</i>
Part Number Example	R5000-Lmn/5X.300.2x500 50				



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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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### 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

