INFINET wireless

InfiMAN 2x2 R5000-Smnc/35.300.2x200.2x22

Description	InfiMAN 2x2 R5000-Smnc/35.300.2x200.2x22, 3 GHz subscriber terminal, net throughput up to 180 Mbps, integrated dual-pol antenna, 22 dBi, 12x12 deg
Net throughput	up to 180 Mbps
Recommended distances	up to 12 km
Radio technology	MIMO 2x2 (OFDM 64/128)
Modulation coding schemes	from BPSK 1/2 to QAM64 5/6
Transmit power	up to 23 dBm
Receiver sensitivity	down to -93 dBm
Frequency range	3400-3700 MHz
Channel width	0.875*, 1.25*, 1.75*, 2.5*, 3.5, 5, 6, 7, 10, 12, 14, 15, 20, 28, 30, 40 MHz
Center frequency adjustment step	125 kHz
Duplex scheme	TDD
Antenna	22 dBi
Wired Interfaces	2x FastEthernet (PoE out)

* available in select markets only

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Consumption	up to 15 W
Power options	110-240 VAC @ 50/60 Hz, +9..56 VDC
Outdoor Unit (ODU)	371 x 371 x 83 mm, 2.8 kg

	Prefix	Freq. Band	Bitrate	Output Power	Ant.	Capacity
Part Number Options	R5000-Smnc	35	300	2x200	2x22	8 20 50 300

Part Number Example	R5000-Smnc/35.300.2x200.2x22|50
Packing List	– Outdoor unit R5000-Smnc/35.300.2x200.2x22 - 1 pcs. – Power Supply IDU-CPE-G(24W) - 1 pcs. – Power Cord - 1 pcs. – Cable Gland - 2 pcs. – Standard RJ-45 connector - 2 pcs. – Shielded RJ-45 connector - 1 pcs. – RJ-45 Plug Cap - 1 pcs. – MONT-KIT-85 Mounting kit - 1 pcs. – Quick Start Guide - 1 pcs.

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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: HTTPS, HTTP, Telnet, SSH, 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

▸ **ARP support**

▸ **Proactive 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.2.1.1
— EN 302 502 v.2.1.1
— 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

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