INFINET Wireless

InfiLINK 2x2 R5000-Smn/6X.300.2x200.2x27

Description	InfiLINK 2x2 LITE R5000-Smn/6X.300.2x200.2x27, 6 GHz point-to-point unit, net throughput up to 180 Mbps, integrated dual-pol antenna, 27 dBi, 5x5 deg
Net throughput	up to 180 Mbps
Recommended distances	up to 40 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 -92 dBm
Frequency range	6050-6425 MHz
Channel width	5, 10, 20, 40 MHz
Center frequency adjustment step	125 kHz
Duplex scheme	TDD
Antenna	27 dBi
Wired Interfaces	2x FastEthernet (PoE out)

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Consumption	up to 15 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
	R5000-Smn	6X	300	2x200	2x27	300

Part Number Example	R5000-Smn/6X.300.2x200.2x27
Packing List	– Outdoor unit R5000-Smn/6X.300.2x200.2x27 - 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-85S Mounting kit - 1 pcs. – Quick Start Guide - 1 pcs.

Infinet Wireless
sales@infinetwireless.com
www.infinetwireless.com

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Features

RADIO

- Voice/RTP Aware Superpacketing
- DFS
- Automatic Bitrate Control
- Automatic Transmit Power Control
- TDD synchronization using AUX-ODU-SYNC (excluding Smn/Lmn)
- 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, HTTPS, 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**
— ETSI EN 301 893 v.2.1.1
— ETSI EN 302 502 v.2.1.1
— FCC Part 15.247

▸ **EMC**
— ETSI EN 301 489-1
— ETSI EN 301 489-17
— FCC Part 15 Class B

▸ **Safety**
— ETSI EN 60 950-1:2006

▸ **RoHS**
— Directive 2011/65/EU