

# InfiLINK 2x2 R5000-Smn/32.300.2x200.2x19


## 3100-3400 MHz

|                                  |   |
|----------------------------------|---|
| Description                      | InfiLINK 2x2 LITE R5000-Smn/32.300.2x200.2x19, 3 GHz point-to-point unit, net throughput up to 180 Mbps, integrated dual-pol antenna, 19 dBi, 17x17 deg |
| Performance                      | up to 180 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 23 dBm  |
| Receiver sensitivity             | down to -98 dBm   |
| Frequency range                  | 3100-3400 MHz   |
| Channel width                    | 3.5, 5, 7, 10, 14, 15, 20, 28, 30, 40 MHz   |
| Center frequency adjustment step | 125 kHz   |
| Duplex scheme                    | TDD   |
| Antenna                          | 19 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)  | 305 x 305 x 74 mm, 2.3 kg  |            |            |              |             |                                |
|                     |  |            |            |              |             |                                |
| Part Number Options | Prefix   | Freq. Band | Bitrate    | Output Power | Ant.        | Capacity                       |
|                     | <i>R5000-Smn</i>   | <i>32</i>  | <i>300</i> | <i>2x200</i> | <i>2x19</i> | <i>8<br/>20<br/>50<br/>300</i> |
| Part Number Example | R5000-Smn/32.300.2x200.2x19 50   |            |            |              |             |                                |



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## Features

### RADIO

- ▶ Voice/RTP Aware Superpacketting
- ▶ 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, 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

- ▶ 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.1.7.1
  - ETSI EN 302 502 v.1.2.1
  - 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 2002/95/EC

