


# InfiLINK 2x2 R5000-Mmxs/5X.300.2x500.2x23

|                                         |                                                                                                                                                                      |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                      | InfiLINK 2x2 PRO R5000-Mmxs/5X.300.2x500.2x23, 5 GHz point-to-point unit, net throughput up to 280 Mbps, integrated dual-pol antenna, 23 dBi, 10x10 deg, Instant DFS |
| <b>Net throughput</b>                   | up to 280 Mbps                                                                                                                                                       |
| <b>Recommended distances</b>            | up to 30 km                                                                                                                                                          |
| <b>Radio technology</b>                 | MIMO 2x2 (OFDM 64/128)                                                                                                                                               |
| <b>Modulation coding schemes</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                                                                                                                                                                  |
| <b>Antenna</b>                          | 23 dBi                                                                                                                                                               |
| <b>Wired Interfaces</b>                 | 1x GigabitEthernet (RJ45)                                                                                                                                            |



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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                               |            |            |              |             |            |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|--------------|-------------|------------|
| Consumption         | up to 20 W                                                                                                                                                                                                                                                                                                                                                                                                                    |            |            |              |             |            |
| Power options       | 110-240 VAC @ 50/60 Hz, ±43..56 VDC                                                                                                                                                                                                                                                                                                                                                                                           |            |            |              |             |            |
| Outdoor Unit (ODU)  | 305 x 305 x 68 mm, 2.5 kg                                                                                                                                                                                                                                                                                                                                                                                                     |            |            |              |             |            |
|                     |                                                                                                                                                                                                                                                                                                                                              |            |            |              |             |            |
| Part Number Options | Prefix                                                                                                                                                                                                                                                                                                                                                                                                                        | Freq. Band | Bitrate    | Output Power | Ant.        | Capacity   |
|                     | <i>R5000-Mmxs</i>                                                                                                                                                                                                                                                                                                                                                                                                             | <i>5X</i>  | <i>300</i> | <i>2x500</i> | <i>2x23</i> | <i>300</i> |
| Part Number Example | R5000-Mmxs/5X.300.2x500.2x23                                                                                                                                                                                                                                                                                                                                                                                                  |            |            |              |             |            |
| Packing List        | <ul style="list-style-type: none"> <li>- Outdoor unit R5000-Mmxs/5X.300.2x500.2x23 - 1 pcs.</li> <li>- Power Supply IDU-BS-G - 1 pcs.</li> <li>- Power Cord - 1 pcs.</li> <li>- Connector - 1 pcs.</li> <li>- Standard RJ-45 connector - 1 pcs.</li> <li>- Shielded RJ-45 connector - 1 pcs.</li> <li>- RJ-45 Plug Cap - 1 pcs.</li> <li>- MONT-KIT-85 Mounting kit - 1 pcs.</li> <li>- Quick Start Guide - 1 pcs.</li> </ul> |            |            |              |             |            |



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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, 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

