

## InfiLINK 2x2 R5000-Mmx/5X.300.2x500.2x28

### 4900-6050 MHz

|                                  |                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                      | InfiLINK 2x2 PRO R5000-Mmx/5X.300.2x500.2x28, 5 GHz point-to-point unit, net throughput up to 280 Mbps, integrated dual-pol antenna, 28 dBi, 5x5 deg |
| Performance                      | up to 280 Mbps                                                                                                                                       |
| Recommended distances            | up to 50 km                                                                                                                                          |
| Radio technology                 | MIMO 2x2 (OFDM 64/128)                                                                                                                               |
| Modulation types                 | from BPSK 1/2 to QAM64 5/6                                                                                                                           |
| Transmit power                   | up to 27 dBm                                                                                                                                         |
| Receiver sensitivity             | down to -94 dBm                                                                                                                                      |
| Frequency range                  | 4900-6050 MHz                                                                                                                                        |
| Channel width                    | 5, 10, 20, 40 MHz                                                                                                                                    |
| Center frequency adjustment step | 125 kHz                                                                                                                                              |
| Duplex scheme                    | TDD                                                                                                                                                  |
| Antenna                          | 28 dBi                                                                                                                                               |
| Wired Interfaces                 | GigabitEthernet                                                                                                                                      |



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|                     |                                                                                    |            |            |              |             |            |
|---------------------|------------------------------------------------------------------------------------|------------|------------|--------------|-------------|------------|
| Consumption         | up to 12 W                                                                         |            |            |              |             |            |
| Power options       | 110-240 VAC @ 50/60 Hz ±43..56 VDC                                                 |            |            |              |             |            |
| Outdoor Unit (ODU)  | 600 x 600 x 75 mm, 6.4 kg                                                          |            |            |              |             |            |
|                     |  |            |            |              |             |            |
| Part Number Options | Prefix                                                                             | Freq. Band | Bitrate    | Output Power | Ant.        | Capacity   |
|                     | <i>R5000-Mmx</i>                                                                   | <i>5X</i>  | <i>300</i> | <i>2x500</i> | <i>2x28</i> | <i>300</i> |
| Part Number Example | R5000-Mmx/5X.300.2x500.2x28                                                        |            |            |              |             |            |



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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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### Features

#### 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

