PRODUCT DATASHEET



R5000-Mmxb 16 dBi

4.9 - 6.0 GHz

Description High-capacity 240 Mbps Integrated 16 dBi 90 deg

Dual-polarization Antenna Base Station

Performance up to 240 Mbps net throughput

Distances 35+ km

Radio • Transmit power: up to 27 dBm

Receiver sensitivity: -67..-101 dBm
Frequency bands: 4.9-6.0 GHz
Channel bandwidth: 5/10/20/40 MHz

• 16 dBi dual-pol integrated 90 deg antenna

• Instant DFS (optional)

Wired Interfaces • Gigabit Ethernet port (10/100/1000 Base-T) RJ-45 connector

• Serial port (RS-232)

Power Consumption Up to 12 Watts

• 110-240 VAC @ 50/60 Hz

• 48 VDC

Form Factor and Dimensions

• Outdoor Unit (ODU):



370 x 370 x 90 mm, 3.7 kg

• Indoor Unit (IDU-BS-G): 124 x 72 x 38 mm, 0.3 kg

Part Number Options	Instant DFS (yes/no)	Freq. Band	Capacity	Output Power	Ant.
	R5000-Mmxbs/ R5000-Mmxb/	49 52 53 54 58	80 300	2x500	2x16

Part Number Example

R5000-Mmxbs/52.80.2x500.2x16

RADIO

· Voice/RTP Aware Superpacketing

- to minimize jitter and latency for multimedia applications

- intelligent search for a cleanest channel and interference avoidance
- radar detection (depending on regulatory domain)
- continuous background spectrum monitoring (for Instant DFS enabled units only)
- only)
 seamless channel change in case of
 congestion or radar detection (for Instant
 DFS enabled units only)
- Automatic Bitrate Control
 to ensure a 100% stable link irrelevant of changes in external conditions

Automatic Transmit Power Control

- to track and keep optimal input signal level
to maximize performance for each link and
reduce overall interference within a given
transmit power and EIRP limitations

Automatic Distance Learning
 to optimize performance for any link distances from dozens of meters to 100 km and above

· Channel Time Adjustment

- to improve performance on heavily loaded links
- · Spectrum Analyzer mode
- non-invasive spectrum analysis (for Instant DFS enabled units only)
- Channel testing tools channel performance measurement
- advanced diagnostics

MANAGEMENT FEATURES

- Web-interface
- basic settings channel diagnostics: spectrum analysis, antenna alignment, channel throughput measurement - unit and RF links monitoring
- maintenance: firmware upgrade, license and configuration import/export
- tech support diagnostic reports generation command-line access
- Command-line interface for in-depth configuration and diagnostics accessible via:
- secure shell (SSH)
- telnet
- serial port remote shell
- SNMPv1 / SNMPv3 support (MIB II, private MIB) Configurable SNMP Traps

NETWORKING

- · Ethernet-over-IP tunneling
- ARP protocol support
- MAC/IP filtering
- Full-fledged 2nd layer switch:
 - -Transparent transport for any type of Ethernet traffic including MPLS, stacked VLANs, etc.
 - Multiple switching groups
- Full VLAN support including Q-in-Q (IEEE 802.1q and 802.1ad)
- STP/rSTP support
- IGMP Snooping with Querrier mode
- Trunk groups support
- RIPv2 / OSPFv2 /static routing
- Tunneling
 - (Ethernet-over-IP, IP-over-IP)
- L2/L3 Firewall
- NAT(multipool, H.323-aware)
- · DHCP client/server/relay

QUALITY-OF-SERVICE

With many QoS permutations, QoS implementation works transparently in the network based on IEEE802.1p standard as well as ToS/Diffserv, guaranteeing optimal performance under any load conditions and lowest jitter/delays for priority traffic.

Quality-of-Service features:

- 16 priority queues
- IEEE 802.1p support
 IP TOS / DiffServ support
- Full voice support
- Traffic limiting
- (absolute, relative, mixed)
- Traffic redirection

MAC

Dynamic adaptive Polling

- Centralized marker grant mode
- Dynamically takes into account channel
- Permanent channel testing

· Pseudo-radio Interface

- unique InfiNet Wireless feature to join InfiNet Wireless networks via 3rd party equipment (Wired Ethernet segments, IP
- · Automatic over-the-air firmware upgrade

STANDARD COMPLIANCE

- Radio
- EN 301 893 v.1.5.1
- EN 302 502 v.1.2.1
- FCC part 15.247
- EMC
- EN 301 489-1
- EN 301 489-17
- FCC Part 15 Class B Safety
- EN 60 950-1:2006
- RoHS
- Directive 2002/95/EC

SECURITY FEATURES

- Storm / flood protection
- · Password protection
- · Protocol messages encryption
- Secure command-line access via SSH protocol

ENVIRONMENTAL

- Outdoor Units:
- -40..+60C, 100% humidity, condensing
- Indoor Unit:
 - 0..+40C, 95% humidity, non-condensing

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InfiNet Wireless Ltd. E-mail: sales@infinetwireless.com Website: www.infinetwireless.com