



## Point to Point Radio

Small/ Compact 5.x GHz Full Duplex

High Capacity OFDM Outdoor Radio

5/10/20/(40)MHz Selectable Bandwidth



**Desc:** (Radio, Point to Point, 5.xGHz, Operating Freq. (5.725-5770MHz ), TR Space 80MHz, Channel BW -20MHz, 48V.  
**Order Example:** RADLINK-P2P-5.xG-OF(5.725-5770M)-TR 80M-CB 20MHz- 48V-a9

**Options:**

<u>Operating Frequency</u>	<u>TR Spacing</u>	<u>Channel Bandwidth</u>	<u>Power</u>
5805-5850 MHz	80 MHz	10MHz	AC 100-264 V
(5350-5510 MHz /	215 MHz	5MHz	50-60Hz
5565-5725 MHz)		(or 40/20/10/5MHz)	
or (5.4/5.7)			

### Overview

The **RADLINK-P2P-5.xG-a9** is designed for Carriers and Internet Service Providers to address high capacity, low latency, and special packet handling for high priority small packets.

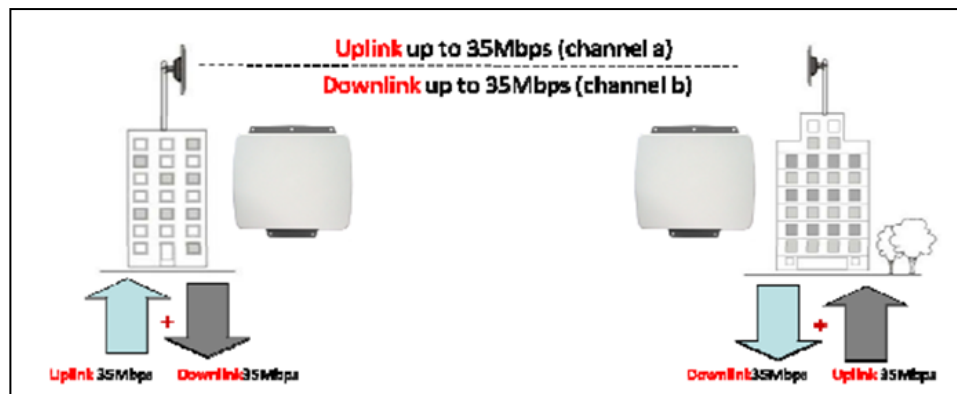
The small and compact outdoor casing complies with IP68 standard which is water and dust resistant. With data rate to deliver a high TCP throughput of up to 35 Mbps. (70 Mbps aggregate).

Data encryption such as WEP, WPA-PSK and WPA2 provide the necessary security and interoperability with other equipment is possible. Enhanced access control can be done with the use of MAC address filtering. Additionally, it is firmware upgradeable through web-server and Telnet.

Four levels of QoS packet handling to provide high reliability for VOIP, video and network operational packets.

### Features & Benefits

- 5.X GHz All-Outdoor
- Monitoring of remote systems
- Cost effective alternative to wired network environment
- Redundant link between buildings
- Home automation & building control
- Wireless Repeater
- Simple Power over Ethernet (PoE) Installation
- Dedicated ISP connections for high-reliability Subscriber
- WiMAX or LTE backhaul
- Quick Carrier-Class deployment ahead of possible Licensed deployment
- Industry leading IP packet throughput and lowest latency



RFC 2544 Results (Mbps) ((Frame size@ 0% packet loss)	64 Bytes	128 Bytes	256 Bytes	512 Bytes	1024 Bytes	1280 Bytes	1518 Bytes
100% Pass in a 20/40 MHz channel (16/64 QAM)	2/3 Mbps	3.5/5 Mbps	6.5/11 Mbps	13/17 Mbps	17/22 Mbps	22/35 Mbps	22/35 Mbps
Latency (one-way)	< 2ms	< 2ms	< 2ms	< 2ms	< 2ms	< 2ms	< 2ms

RADLINK-P2P-5.xG-a9

Specifications may be subject to change

10/15/12

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## Point to Point Radio Family

Small/ Compact 5.x GHz Full Duplex, High Capacity OFDM Outdoor Radio  
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### Product Highlights

#### Efficient spectrum utility

Software adjustable channel bandwidths for 5, 10, 20 or 40MHz.

Smaller bandwidth for more non-overlapping channel.

Larger bandwidth for more throughput, (depends on the applications deployed).

#### Bandwidth control / QOS

Bandwidth control to minimize or maximize the throughput needed or the number of channels required.

QOS function provides better Video/VOIP quality.

### Specifications

RADIO							
Operating Frequency	5725-5770 MHz / 5805-5850 MHz (5350-5510 MHz / 5565-5725 MHz) or (5.4/5.7)						
TR Spacing	80 MHz (or 215 MHz)						
Duplexing Method	FDD (Frequency-Division duplex)						
Channel Bandwidth	20MHz / 10MHz / 5MHz (or 40/20/10/5MHz)						
Output Power	17dBm						
Receive Sensitivity (BER 1E10-6) In a 5MHz channel	-71dBm (±2dB) @ QAM-64 -81dBm (±2dB) @ QAM-16 -84dBm (±2dB) @ QPSK -89dBm (±2dB) @ BPSK						
Frequency Stability	±10 ppm						
Modulation	OFDM						
Range	Up to 20 Km. (depends on the antenna gain)						
RFC 2544 (Frame size) (Mbps) (0% packet loss)	64 Bytes	128 Bytes	256 Bytes	512 Bytes	1024 Bytes	1280 Bytes	1518 Bytes
Pass Rate using 16 QAM in a 20/40 MHz BW (each direction)	2/3 Mbps	3.5/5 Mbps	6.5/11 Mbps	13/17 Mbps	17/22 Mbps	22/35 Mbps	22/35 Mbps
Latency (one-way)	< 2ms	< 2ms	< 2ms	< 2ms	< 2ms	< 2ms	< 2ms
INTERFACES							
Antenna connector	N-type (f) @ 50Ω						
Ethernet	IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx)						
Management Port	In Band Ethernet (RJ45)						
Power Supply	PoE						
MANAGEABILITY							
Management and setup	Web-based						
SNMP agents	V1, V2c						
Password Access control to configuration	2 levels						
Operating System	Windows 98/2000/NT/XP/W7						
Network Architecture	Point to Point						
Bandwidth management	Yes						
Other features	VLAN transparent						

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SECURITY	
Data Encryption	64/128/152 bits encryption; WPA-PSK, WPA2 (AES-128 bit)
Authentication	802.1x Auth.(EAP)
Authorization	MAC Address Access and protocol Filter
ANTENNA-INTEGRATED VER. (EIRP=40dBm)	
Operating frequency range	5725MHz – 5850MHz (or 5.4/5.7), Low band: 5725-5770MHz (OR 5.35 – 5.51) High band: 5805-5850MHz (OR 5.565 – 5.725)
Antenna Gain (options)	17dBi, 23dBi or External Antenna
Beamwidth (typ.)	H 10° ; E 10°
VSWR (typ.)	≤1.7 :1
Front to back ratio (typ.)	40 dB
Impedance	50 ohms
ENVIRONMENT	
Operating Temperature	-30°C ~55°C
Storage Temperature	-30°C ~70°C
Humidity	95% non-condensing
POWER SUPPLY	AC 100-264 V, 50-60Hz or DC 48V
PHYSICAL	
Dimension	259 (L) x 250 (W) x 75 (H); mm
Weight	1.8 Kg
WARRANTY	1 year
ADVANCE	
Base Station Scanning	RSSI
Watchdog	