5GHz OFDM Outdoor Radio
54Mbps Variable Bandwidth

RADLINK 802-11a Outdoor Radio 5.15-5.85GHz

P2P or P2MP

RoHS COMPLIANT

802.11a Wideband Access Variable Bandwiddth Outdoor Radio

Outdoor Radio with 23 dBi Integral Antenna

Applications
- P_T_P (Bridge or P-T-MP)
- Monitor remote system
- Sensor data capture in embedded systems
- Home automation & building control
- SCADA (supervisory control & data Acquisition)
- Dedicated ISP connections for high-reliability subscribers
- Enterprises or Institutions LAN

Order Examples: RADLINK-P2P or P2MP-5.15-5.85-vari bw-a9
   Description: (Transceiver P2P or P2MP, 5.15-5.85GHz, vari bw Integral Antenna, 802-11a,

The **RADLINK-P2P or P2MP-5.15-5.85-vari bw-a9** from Raditek Inc. is a cost-effective point-to-point / point-to-multipoint solution for unlicensed wireless deployment both for backhaul and "last mile" distribution system, working at 5.1~5.8GHz band, which let the system operator deploy the applications with the lower cost. The fractional bandwidth control feature allow more non-overlapping channel in practical deployment that provides better flexibility in deploying the network. High output power OFDM technology gives the ability for near-line of sight deployment for distance up to 20 Km, and the unique Regatta mode can speed up throughput up to 30%. Utilizes Time Division Duplex Technology allowing operation on a single channel. These products are primarily designed to provide standard Ethernet interface in a wireless link between distant sites.

Product Highlights
Effective spectrum utility
The **RADLINK--micro** uses advanced technology (OFDM/TDD) to narrow the channel into smaller
Bandwidths more than other wireless radios. There are software selectable channel bandwidths of 5, 10 and 20MHz.

Regatta mode increase the performance up to 30%
Unique technology called regatta mode can enhance the performance of the radio up to 30% for every channels and bandwidth.

Versatile quality of service/ Time-division multiplexing technique
TDM tech can avoid the packets collision and send the packet more efficient and stable more improve the quality of voice and data transmission. The data race of the CPE radio can be set in fractional (nx64Kbps).

Near-line of Sight.
High output power OFDM technology and better receive sensitivity provides the ability of Near-line of Sight development.

Security
WEP provides WEP 64 / 128 / 152 bits, AES 128bit WPA-PSK, and WPA2 PSK as well as MAC access control to increase security. The regatta mode will provide additional security the system.

Antenna Alignment
The site survey function provides the RSSI (received signal strength indicator) info to indicate the status of received signal level and useful as antenna alignment tool.

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RADITEK INC.

RoHS COMPLIANT

5GHz OFDM Outdoor Radio
54Mbps Variable Bandwidth

RADIO					
Standard	IEEE 802.11				
Frequency Band	5X GHz				
Channel Bandwidth	5.15-5.85GHz Customized to meet local Regulatory requirements				
RF Power/ Recvs Sensitivity/ Up to Distance *with 23dBi Integral ant.for 99.99% availability & Ideal condition Recvs Sensitivity at 10:8 BER	Xmit power & data Rate	CH BW/Mod	Rx Sensitivity*	Throughput*	Max Dist
	20dB (±2dB) @54Mbps	20MHz/64QAM	-70dB	28 Mbps	8Km
	22dB (±1dB) @36Mbps	20MHz/16QAM	-75 dB	27 Mbps	11 Km
	22dB (±1dB) @18Mbps	10MHz/ QPSK	-81 dB	11 Mbps	16 Km
	22dB (±1dB) @6Mbps	5MHz/BPSK	-87 dB	6 Mbps	20 Km
Frequency Stability	±10 ppm		Frequency Tolerance	±15 ppm	
Modulation	OFDM/DSSS				

INTERFACES	
RF (antenna) connector	Type N female
Ethernet	IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx)

MANAGEABLILITY	
Management and setup	Web-based
SNMP agents	MIMII
Protocol	TCP/IP, IPX/SPX, NetBEUI
Operating System	Windows 98/2000/NT/XP
Network Architecture	PTP / PTMP
Data Bandwidth Control	Versatile QoS/ TDM; N64Kbps

SECURITY	
Data Encryption	WEP 64/128/152 bits, AES-128 bit encryption;
	WPA-PSK, WPA
Authorization	MAC Address Access Filter
Other feature	Disable broadcasting SSID Client Isolation (Layer 2 Isolation)

ENVIRONMENT	
Operating Temperature	-30 ~ 60ºC
Storage Temperature	-30 ~ 70ºC
Humidity	95% non-condensing
Power Supply	AC 100-264 V, DC 24 V, 50-60Hz

PHYSICAL		External antenna	23 dBi INTEGRAL antenna	20 dBi INTEGRAL antenna
Power		23dBm(200mW)@16QAM	EIRP=46dBm@16QAM	
Dimension		259(L) ×250(W) × 75(H) mm 10.2 X 9.5X 2.9 inch	335(L) ×335(W) × 81(H) mm 13.2 X 13.2 X 3.2 inch	330(L) ×295(W) × 91(H) mm 13. X 11.6 X 3.6 inch
Weight		1.4Kg; 4.0 lb	2.9Kg; 6.4 lb	2.9Kg; 6.4 lb
Warranty	1 year			

ADVANCE	
Base Station Scanning	N RSSI

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