



Small and Compact 4.9/ 5.15-5.85GHz
OFDM outdoor Subscriber
5/10/20/40MHz Fractional Bandwidths, 100Mbps

Applications

- Redundant link between buildings
- Home automation & building control
- Wireless Repeater
- Dedicated ISP connections for high reliability subscribers

Features & Benefits

- Competitive P-T-P or P-T-MP Bridge
- Monitoring of remote systems
- Cost effective alternative to wired Network environment



Order Examples: RADLINK-PICO-4.9-5.85-32d-a9

Description: (Transceiver Pico, 4.9-5.85GHz, 32dBm EIRP, 12dBi Integral Antenna)

The **RADLINK-PICO** is designed for Carrier and Internet Service Providers to address the last-mile wireless infrastructure solution with high performance and competitive cost. It is compliant to IEEE802.11a standard; it comes with software controllable RF power output and distant setting for optimal distance (up to 8km) Vs throughput performance.

The compact outdoor casing complies with IP68 standard and is water and dust resistant. Integrated with a 12dBi directional antenna, and data rate of up to 108Mbps on Turbo mode,

The **RADLINK-PICO** series has been tested to deliver a high TCP throughput of up to 20Mbps. With an option to have the WDS (wireless distribution system) turning on or off, it is interoperable with most of the standard 802.11 a/b/g APs in the market. It can also support multiple users with the WDS turned off.

Data encryption such as WEP, WPA-PSK and WPA/2 is possible providing the necessary security and interoperability with other equipment. Enhanced access control can be done with the use of MAC address filtering, both on the AP and the client side. Additionally, it is firmware upgradeable through web-server and Telnet.

Product Highlights

Effective spectrum utility

The **RADLINK-PICO** uses advanced technology to narrow the channel into smaller Bandwidths more than other wireless radios. There are software selectable channel bandwidths of 5, 10, 20 and 40MHz.

Turbo mode increases the performance up to 50%

Turbo mode supports up to 108Mbps data rate which can enhance the throughput performance of the radio up to 50%.

Bandwidth control / QOS

Bandwidth control can limit the throughput and the QOS function provides better Video/VOIP signal quality.

Security

WEP 64 / 128 / 152 bits, 802.1x Authentication (EAP), MAC access control, disable broadcast the SSID, client isolation, WPA-PSK, WPA-TKIP encryption and WPA2 (AES-128bits) build the highest security mechanism to prevent malicious attacks from the internet.

Antenna Adjust

This function provides MAC address to the RSSI (signal strength) info of the units which is associated to the other end of the link for specific link quality information.

Small and Compact 4.9/5XGHz, OFDM outdoor Subscriber 5/10/20/40MHz Fractional Bandwidths, 100Mbps

Specifications

RADIO		
Operating Channels	4.9 GHz (Optional)	4.9GHz-5.25GHz
	5X GHz	5.15GHz-5.35GHz
		5.475GHz-5.725GHz
		5.725GHz-5.850GHz
Channel Bandwidth	Software selectable channel bandwidths of 5 / 10 / 20 / 40 MHz	
Output Power	18 dBm (±2dB) @ QAM-64 19 dBm (±2dB) @ QAM-16 20 dBm (±2dB) @ QPSK 20 dBm (±2dB) @ PPSK	
Receive Sensitivity (BER 1E10-6) In a 5MHz channel	-71 dBm (±2dB) @ QAM-64 -81 dBm (±2dB) @ QAM-16 -84 dBm (±2dB) @ QPSK -89 dBm (±2dB) @ BPSK	
Frequency Stability	±10 ppm	
Modulation	OFDM	
Range	Up to 8 Km.	
INTERFACES		
Ethernet	IEEE 802.3(10Base-T) / IEEE 802.3u(100Base-Tx)	
MANAGEABILITY		
Management and setup	Web-based	
SNMP agents	V1, V2c	
Password Access control to configuration	2 levels	
Operating System	Windows 98/2000/NT/XP	
Network Architecture	PTP / PTMP	
Bandwidth management	Yes	
Other features	VLAN transparent	
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	
Other security	Disable broadcast SSID(suppress SSID); Wireless Isolation	
ANTENNA		
Frequency	4.9 GHz or 5X GHz Band	
Gain	12dBi	
Beamwidth	H 40° ; E 33°	
VSWR	≤ 2.0:1	
Front to back ratio	40 dB	
Impedance	50 Ω (ohms)	

Small and Compact 4.9/5XGHz, OFDM outdoor Subscriber 5/10/20/40MHz Fractional Bandwidths, 100Mbps

ENVIRONMENT	
Operating Temperature	-40 ~ 55°C
Storage Temperature	-40 ~ 70°C
Humidity	95% non-condensing
Power Supply	AC 100-264 V, DC 24 V, 50-60Hz
PHYSICAL	
Dimension	215 (L) × 122 (W) × 65 (H)
Weight	750g; 1.65lb
Warranty	1 year
ADVANCE	
Base Station Scanning	RSSI
ORDERING INFORMATION	
12dBi Panel Antenna	EIRP=32dBm
External Antenna	output power=20dBm
23dBi Panel Antenna	EIRP=43dBm