

AirLink

Compact industrial WiFi access point



- All-in-one : AP/client/repeater/Mesh/router
- WiFi 802.11a/b/g/n (MIMO 2T2R), radio data rate up to 300 Mbps, 2.4/5 GHz
- Advanced security functions
- Easy to configure : web browser, SNMP V3, WaveManager
- Operating System : WaveOS
- Wide range power supply : +9VDC to +48VDC
- Compact case, wall or DIN Rail mounting
- Multichannel fast roaming (in client mode)



Introduction

AirLink is a WiFi device designed for industrial, building & factory automation and mobile applications:

- **Compact and practical:** a small footprint, wall or DIN rail mounting options and a wide range of power supply make it extremely easy to integrate into electrical cabinets or in tight spaces and thus ideal for machine manufacturers, OEM...
- **Mobility:** with fast roaming performances (<30 ms) and high resilience to shocks/vibrations, it fits perfectly in AGVs, vehicles (buses)...
- **Reinforcement of the coverage:** it has 2 antennas to work in diversity or in MIMO and thus reinforcing the WiFi coverage and the reliability of your indoor radio communications (IIoT, MtoM, remote access & display...).

AirLink is an all-in-one multifunction product: access point, client, repeater, router & Mesh. It supports any type of Ethernet protocol such as Modbus/TCP, EtherNet/IP, Safe Ethernet, PROFINET... Compliant with IEEE 802.11a/b/g/n WiFi standards (2.4 & 5 GHz), it offers up to 300 Mbps radio data rate.

AirLink integrates the latest security standards (WPA2-Enterprise (Radius), DoS, Firewall...) as well as routing and filtering functions facilitating mass deployments (e.g. machine manufacturers, AGVs, buses...).

Technical characteristics overview

Ethernet interface	1-port Gigabit Ethernet 10/100/1000 Base TX auto-sensing, auto MDI/MDIX cross-over, RJ45 Ethernet interface
WiFi interface	1 radio IEEE 802.11a/b/g/n, MIMO 2T2R, 2.4 / 5 GHz
WiFi radio data rate	802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: MCS0-7, 2 streams (6.5 to 300 Mbps)
Operating frequencies	ISM : 2.4-2.483 GHz (up to 14 channels) UNII : 5.15-5.25 GHz (up to 4 channels) UNII-2 : 5.25-5.35 GHz (up to 4 channels) UNII-2 ext : 5.470-5.725 GHz (up to 11 channels) UNII-3 : 5.725-5.825 GHz (up to 4 channels) Supports DFS and TPC
Output power	2,4 GHz : 23,5 dBm (aggregate) / 5 GHz : 21 dBm (aggregate)
Sensitivity	Receiver : -92 dBm for 802.11 b/g/n and -96 dBm for 802.11a/n
Antennas	2 flat & swivel omnidirectional antennas, RPSMA, 2.4 GHz-3 dBi / 5 GHz-4 dBi
Security	Firewall, DoS, https, MAC filtering, WPA/WPA2-Personal & Enterprise (IEEE 802.1X/RADIUS), WEP, tunnels L2 (GRE), VPN (OpenVPN), SNMP V3
WiFi modes	Access point, client, MESH (IEEE 802.11s), infrastructure, AD-HOC, fast roaming (less than 30 ms), WMM QoS
Ethernet networking	Frames filtering, bridging, repeater, STP/RSTP, VLAN, DHCP (server & client), DNS relay
Ethernet routing	Multicast (PIM), IP redundancy (VRRP), static routes, NAT router, router
Administration	http, https, SNMP agent (V1, V2C, V3), ACKSYS administration software (NDM & WaveManager)
LEDs Signaling	Radio : activity - status Ethernet : link 10/100/1000 - activity Power : on-off
Power supply	+9VDC to +48VDC, 3-pin Phoenix connector
Consumption	5.5 Watts typical, 8.5 Watts maximum
Dimensions & weight	Compact case L : 103 x l : 67 x h : 24 mm, weight 225 g
Standards	CE (RED) and FCC (FCC ID : Z9W-RMB) certified. Security : EN60950-1, EN62311 Radio : EN300-328 2.1.1 (2.4 GHz), EN301-893 2.1.1 (5 GHz, DFS) CEM : EN301-489-1, EN301-489-17
Environment	IP30 Operating temperature: -20°C to +60°C , storage: -40°C à +85°C, humidity: 0% to 99% (non-condensing)
Warranty	5 years

Ordering references

AirLink	WiFi access point, client, repeater (WDS) and MESH point (IEEE 802.11 a/b/g/n), 10/100/1000 RJ45 Ethernet interface, shipped with two 2,4 - 3 dBi / 5GHz - 4 dBi antennas
PWS12-UNI-PH3	AC (110V / 220V) to 12VDC power adapter with cable terminated by a 3-pin Phoenix terminal block
WL-FIX-RD2	Din rail fixing kit

All the brand names mentioned in this document are trademarks. ACKSYS is constantly looking at ways to improve its products. The current specifications may therefore be modified without notice and the characteristics set out herein should not be construed as creating any contractual obligation. All the products featured herein are designed and manufactured in Europe.

ACKSYS_AirLink_US_Rev A0_27/07/17