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

- DC power supply input (+9VDC to +48VDC) & PoE 802.3af (from model V2)

- 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, ANI (Adaptive Noise Immunity)
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 : up to 23.5 dBm (aggregate) / 5 GHz : up to 21 dBm (aggregate)
Sensitivity max.	2.4 GHz : -94 dBm / 5 GHz : -96 dBm
Radio connectors	2 x RP-SMA
Security	Firewall, DoS, https, MAC filtering, WPA/WPA2-Personal & Enterprise (IEEE 802.1X/RADIUS), WEP, tunnels L2 (GRE), VPN (OpenVPN), SNMP V3, client isolation in AP mode
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), WaveManager administration software
LEDs Signaling	Radio : activity - status | Ethernet : link 10/100/1000 - activity | Power : on-off
Power supply	+9VDC to +48VDC, 3-pin Phoenix connector & PoE Powered Device 802.3af (from model V2)
Consumption	IDLE mode : 1.7 W / Maximum average : 5.8 W / Recommended power supply : 7 W
Dimensions & weight	Compact case L : 103 x l : 67 x h : 24 mm, weight 225 g
Standards and certifications	**CE (RED)** — Safety : EN 62368-1:2014+A11, EN62311 EMC : EN301-489-1, EN301-489-17 Radio : EN 300 328 2.1.1 (2.4 GHz), EN 301 893 2.1.1 (5 GHz, DFS) **FCC** — Radio : FCC ID Z9W-RMB **Environmental** — Shocks and vibration : EN 61373 (CAT 1 CLASS B)
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 2.4GHz - 3 dBi / 5GHz - 4 dBi antennas
Accessories :	
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

ACKSYS
COMMUNICATIONS & SYSTEMS

Z.A. Val Joyeux - 10, rue des Entrepreneurs - 78450 Villepreux (FRANCE) - T : +33 (0) 1 30 56 46 46 - F : +33 (0) 1 30 56 12 95
www.acksys.fr – sales@acksys.fr