# Product Datasheet - Technical Specifications



More information in our Web-Shop at ▶ **www.meilhaus.com** and in our download section.

**Your contact**

**Technical and commercial sales, price information, quotations, demo/test equipment, consulting:**

Tel.: **+49 - 81 41 - 52 71-0**

FAX: **+49 - 81 41 - 52 71-129**

E-Mail: **sales@meilhaus.com**

Downloads:
**www.meilhaus.com/en/infos/download.htm**

**www.meilhaus.de**

# 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<br>802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps<br>802.11n: MCS0-7, 2 streams (6.5 to 300 Mbps) |
| **Operating frequencies** | ISM : 2.4-2.483 GHz (up to 14 channels)<br>UNII : 5.15-5.25 GHz (up to 4 channels)<br>UNII-2 : 5.25-5.35 GHz (up to 4 channels)<br>UNII-2 ext : 5.470-5.725 GHz (up to 11 channels)<br>UNII-3 : 5.725-5.825 GHz (up to 4 channels)<br>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), NDM & WaveManager administration softwares |
| **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.<br>Security : EN60950-1, EN62311<br>Radio : EN300-328 2.1.1 (2.4 GHz), EN301-893 2.1.1 (5 GHz, DFS)<br>CEM : EN301-489-1, EN301-489-17 |
| **Environment** | IP30<br>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 |
| **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