AirWave

Quick installation guide

Multifunction AP/Client WIFI 6

Can be mounted on

DIN rail or mounting plate



RESET button :

- Short push (< 1 sec), anytime:

  → Reset

- Long push (> 2 sec.), while operating:

  → Restore factory settings

Restrictions:

- * The AirWave is supported only with ACKSYS WaveManager version 4.6.0.1 or later
- **SD card slot present. Feature will be enabled in a future firmware update
- ***The device can tolerate temporary voltage drops down to 7 V during operation without performance degradation. Continuous operation below 9 V is not recommended.

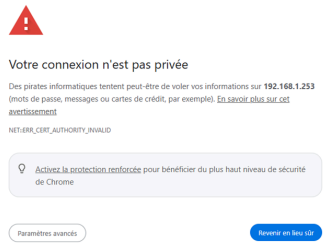
Grounding lug:
For efficient grounding, we recommend using a braided metal wire (not supplied) connected to the grounding lug



SD connector **

Software configuration:

- Upon the first connection, an error message may appear.



- Make an exception in the browser.
- If not possible, export the product certificate to a file and import it into the browser.
  The login page will appear.
- For the final installation, there are two options:
  - Continue using the product's self-signed certificates.
    Note: The security alert will reappear if the product is accessed from another machine.
  - Install a certificate on the product that is signed by a CA recognized by your IT department.
    No security alert will appear regardless of the machine used (as long as the CA is installed on the machine).

POWER SUPPLY

3-way terminal block
9 to 48 VDC***



Signal name	Pin
Ground	-
Vdc	+
Earth	⏚

Protected against wire inversion

Do not use both power sources simultaneously. Use either the DC power supply or PoE, but not both

2.5 Gigabits Ethernet RJ45 PoE connector with 2 leds :

• 1xGreen:

Solid green: LAN LINK established

Blinking green: LAN Tx/Rx activity

• 1x Yellow:

Solid yellow: connected in 2500 Base-T

Off (yellow): connected in 10 or 100 or 1000 Base-T

The PoE power must be
802.3af / 802.3at type 1 class 2 compliant and connected to LAN

2x RP-SMA female WIFI connector:

To achieve the full performance of the MIMO 2T/2R technology, both antennas must be connected.

If only one antenna is used:

- Connect it to ANT1.
- Place a 50 Ω terminator on ANT2.

• 1x Green/Red: SD-status =>
Off (green): SD card not inserted
Solid green: SD inserted and operational
Solid red: SD inserted and not operational

• 1x Green: WiFi 2.4G status =>
Off (green): The radio WiFi 2.4 is disabled
Blinking green: The product is unassociated
Solid green: The product is associated

• 1x Green/Red : Power/Diag=>
Green : Product is powered by the power connector or a Poe source
Red : The product starts up
The Diag LED remains red or lights red after starting the product when the device presents an hardware failure

• 1x Green/Red : WiFi 5G status/DFS status =>
Off (green): The radio WiFi 5 is disabled
Blinking green: The product is unassociated
Solid green: The product is associated
Blinking red: WiFi 5 in CAC DFS state
Solid red: WiFi 5 in NOP DFS state

- ✓ Access point, Client, Router, repeater, Bridge
- ✓ WIFI 6 2.4 G/5 G 2T2R
- ✓ One port 2.5 Gigabits Ethernet RJ45 PoE
- ✓ Compact metal housing, wall or optional DIN Rail mounting
- ✓ One power input 9 to 48 VDC
- ✓ Two RF connectors for externals antennas

Optional accesories	
TBD	AC (110V/220V) to 12 VDC power adapter with cable terminated by 3 pin Phoenix terminal block
WL-FIX-RD2	DIN rail fixing kit
TBD	Mounting plate

Mechanical characteristics	
Dimensions	103 x 87 x 21 mm
Enclosure	IP 30
Operating temperatures range	0°C to +60°C
Storage temperatures range	-40°C to +85°C

Software	
Device configuration	Automatic device discovery tool Built in web-based utility for easy configuration from any web browser (user/password protection & https) It is recommended to use Edge or Chrome as the browser
Firmware upgrade	Via web browser or "ACKSYS WaveManager" *
SNMP	SNMP V2C, V3
Operating mode	AP (Access Point), Client, Client-router, Repeater

AP mode only	
Network topology	Infrastructure
Security	WPA 2/3 w/wo authentication 802.1x, SSID visibility status.
Client/Bridge mode only	
Network topology	Infrastructure
Security	WPA2/3 w/wo authentification 802.1x

Wi-Fi interface	
Number of radios	2
Radio Mode	concurrent radios WiFi6 (IEEE 802.11 ax) 2.4 GHz and 5 GHz, MIMO 2T2R, ANI (Adaptive Noise Immunity)
WiFi radio data rate	1201Mbps @ 5GHz, 573.5 Mbps @ 2.4GHz
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 25 dBm (aggregate) / 5 GHz : up to 23 dBm (aggregate)
Sensitivity max.	2.4 GHz : -83 dBm / 5 GHz : -91 dBm

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