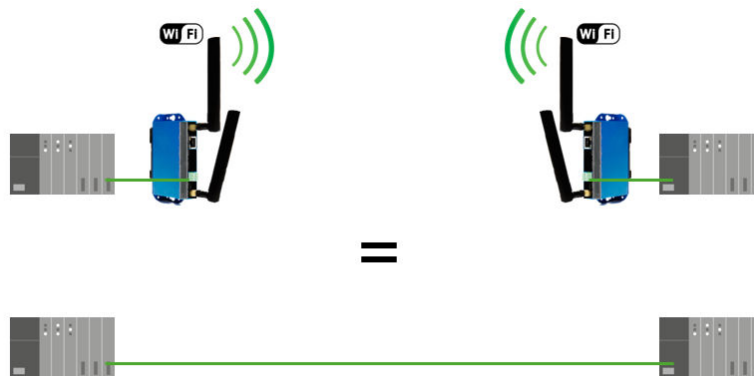


Application note

Starting with XWLAN WI-FI Bridge



1) MAIN SPECIFICATIONS

- General characteristics
- Power supply
- Ethernet interface
- Wi-Fi interface
- Antennas
- Mechanical plan

2) DIAGNOSIS

- LED status
- Using Status menus
- XWLAN router configuration modification

3) HOTLINE SUPPORT

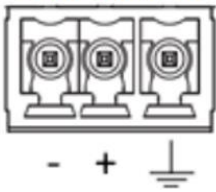

Latest update: **17/07/2024**

1) MAIN SPECIFICATIONS

1.1) General characteristics

General characteristics	
Dimensions	127 x 67 x 23 mm, without antennas connectors
Weight	200g without accessories, 228 g with connectors and antennas
Casing	IP 30
Operating Temperature	-20°C to +60°C
Storage Temperature	-40°C to +85°C

1.2) Power supply

Power connector		
<p>3-way terminal block 9 to 48 VDC</p> 	Signal name	Pin
	Ground	-
	Vdc	+
	Earth	

Power supply	
DC	Power supply DC wide range 9 to 48 VDC, protected against reverse polarity, 5,5W typ., 10W max 3 points Phoenix connector


Power supply available in option (not included within the pack):

AS07 (Part Number: 0020301)

- 220/24DC 24W
- DIN-Rail mounting

1.3) Ethernet Interface

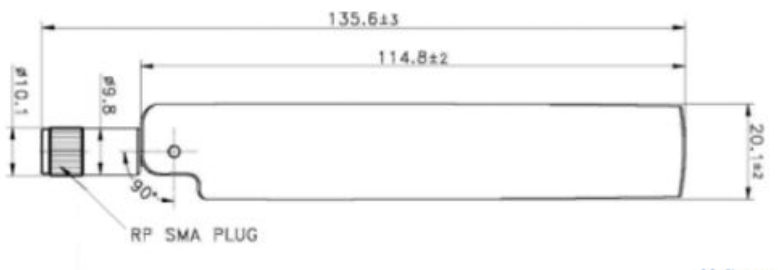
Ethernet Interface	
Ports quantity	1
Ports type	Auto MDI/MDI-X 10 Base T/100 Base Tx/1000 Base T with automatic negotiation (10/100/1000 Mbps), according to 802.3u

LAN Connector (Ethernet)	
Female connector RJ45 	The port supports auto-negotiation function, i.e. it automatically selects the 10 Mbps, 100 Mbps or 1000 Mbps transmission speed and the half or full duplex mode corresponding to your equipment.

1.4) Wi-Fi Interface

Wi-Fi Interface	
Wi-Fi interface quantity	1
Radio mode	IEEE 802.11a/h, 802.11b, 802.11g, 802.11n
Operating band 802.11b/g/n	2.4 GHz ; 2.412 to 2.484 GHz
Antennas quantity	2

1.5) Antennas

Antennas	
Antennas type	Dipole, dual-band, omnidirectional, articulated
Operating band	2,4 / 5,8GHz
Connector	RP-SMA male
Gain	3dBi
 <p style="text-align: right;">Unit: mm</p>	

The performance of Wi-Fi routers is given regarding that:

- « antennas can be seen ».
- Use of 2 antennas per router.

→ reach up to **400m**

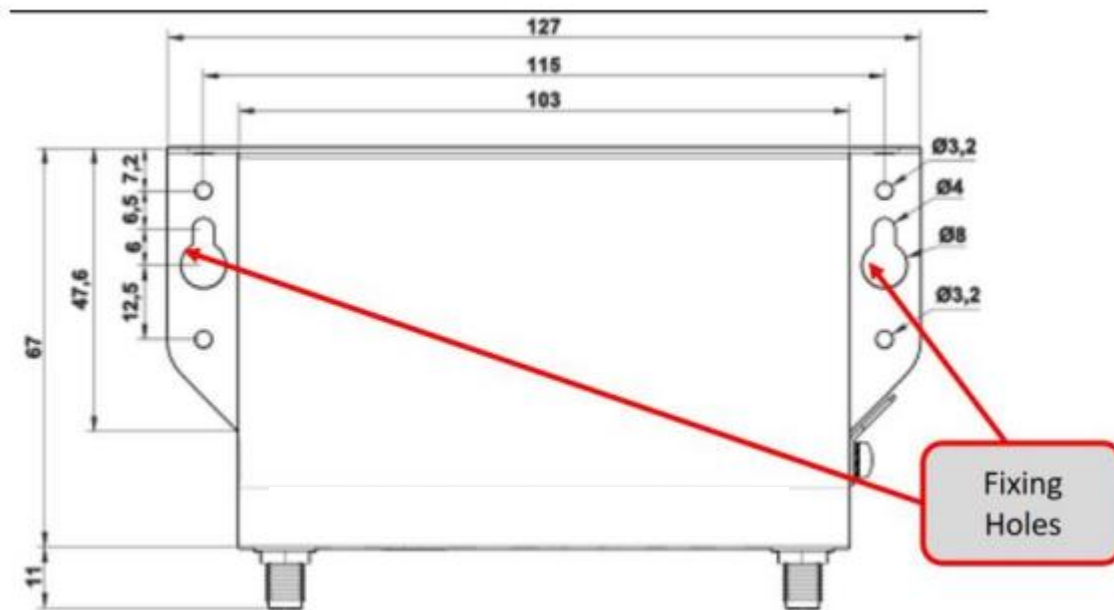
If you need to remote the antennas, we offer the [ANT311](#) (Part Number: 0010503) (delivered with 2.5m of cable).



Note: the router can be used with only one antenna but in this case:

- Emission level is reduced by 3dBi.
- Bandwidth decreases significantly.

1.6) Mechanical plan



The XWLAN Wi-Fi router can be installed on DIN-Rail (DIN-Rail grip included into the pack), or mounted on a horizontal tray.

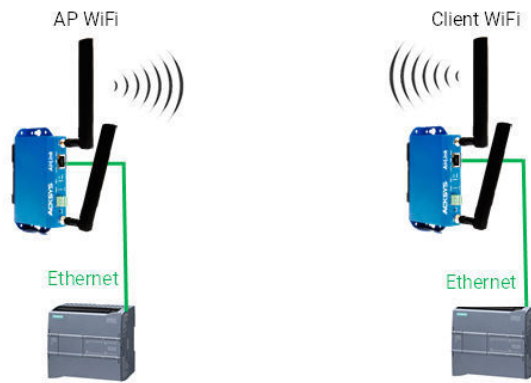
2) DIAGNOSIS

2.1) LED status

LEDs status	
Power	Steady green: the product is correctly power supplied
Diag.	Steady red: 40s start-up phase Steady green: Connected
Wi-Fi Act.	Blue: Sending/Receiving Data on the Radio
Wi-Fi State	Off: Wi-Fi not connected Blinking green: remote XWLAN not associated Steady green: remote XWLAN associated
Eth. Link/Act	Steady green: Ethernet link established Blinking green: Sending/Receiving Data on the Ethernet interface

The 2 routers Wi-Fi are configured on the IP addressing plan in 192.168.111.0/24.

- 192.168.111.253 for the *Access Point*:
 - **XWLAN-E-100 (Part Number: 4071002)** (AP Wi-Fi)
- 192.168.111.252 for the *Client*:
 - **XWLAN-E-100 (Part Number: 4071001)** (Client Wi-Fi)



Access to the diagnosis page (Status menu) is protected:

Id: user

Password: UserXWLANE100

2.2) Checking the association with the remote XWLAN Wi-Fi router.

Tab Status > WIRELESS

etec TELECOM XWLAN Bridge Wi-Fi Industrial Networking

SETUP TOOLS **STATUS**

DEVICE INFO NETWORK WIRELESS SECURITY SERVICES LOGS

ASSOCIATED STATIONS

ASSOCIATED STATIONS RESULTS : 1

GRAPH	RADIO	NAME / SSID	MODE	MAC	CHANNEL	SIGNAL	NOISE	SIGNAL/NOISE
	WIFI	cdupontwifi	Infrastructure	00:09:90:03:85:71	6	-34 dBm	-91 dBm	57 dB

For a stable operation, the level of:

- **SIGNAL** must be superior to the value of **-85dBm**

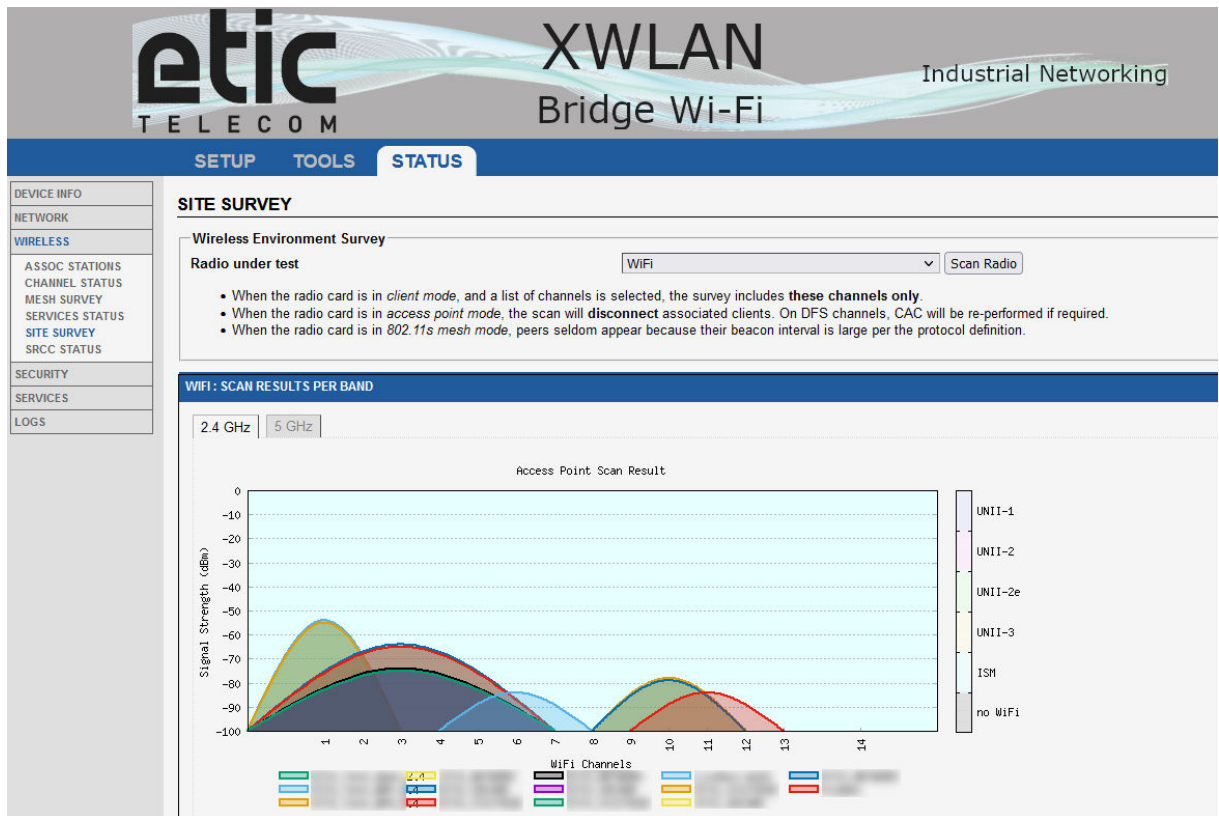
And also ratio

- **SIGNAL/NOISE** must be superior to the value **10**.

2.3) Checking the occupancy of Wi-Fi channels by Radio Scan.

In case of dysfunction, a check can be carried out (at the request of Etec Telecom's hotline) on the AP Wi-Fi router (**XWLAN-E-100-4071002**).

Tab Status > SITE SURVEY



2.4) XWLAN router configuration modification

Access to the configuration is protected by a *root* access.

Only ETIC TELECOM's technical support can make a configuration modification by setting up a remote access. (TeamViewer for example).

3) HOTLINE SUPPORT

Our product is Plug & Play. However, you can contact our customer support department if you encounter any difficulties during the commissioning or operation phase of your Wi-Fi bridge.

Feel free to contact our Hotline :

- hotline@etictelecom.com
- +33 4 76 04 20 05



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