

# WiFi Access Point and Ethernet Bridge for automotive applications



10 R- 02 05053

- Functions : Access Point, Ethernet Bridge, AD-HOC mode support
- 7-60 VDC wide range power supply
- Power over Ethernet « POE » (IEEE 802.3af)
- MIL-STD-810 shockproof rugged IP 66 aluminum enclosure
- Point to Point (virtual cable)
- MODBUS/TCP industrial protocol support

## WL-ABOARD/N

IEEE 802.11b  
WiFi 2.4 GHz

RF Module  
certified



5-YEAR WARRANTY



WL-ABOARD/N is a rugged equipment designed for applications in road and rail transportation, depots, warehouses, agriculture, manufacturing floors, docks, distribution centers, shipyards and lumberyards ... it can be mounted in trucks, trains, forklifts, trailers, tractors or cranes, for material handling, real-time information transmission, and inventory management.

It fulfills the most severe requirements in terms of operating environment: from -25°C to +80°C, shockproof and vibration proof according to MIL-STD-810F standard, seal rating IP66 for protection against dust and water projections.

The product is UTAC E2 certified (CE standard for electronic equipments installed aboard vehicle), and can thus be installed in full safety aboard of all on-road equipments.

# TECHNICAL CHARACTERISTICS

<b>Bridge mode</b>	WL-ABOARD/N can be used in the Infrastructure mode (access point in client mode) and in the AD-HOC mode (access point in point to point or multipoint mode); it can be connected to any IEEE 802.11b or IEEE 802.11g access point device
<b>Access Point mode</b>	Access Point for IEEE 802.11b and IEEE 802.11g equipments connection
<b>Ethernet network</b>	RJ45 10 BASE T Ethernet interface (10/100 compatible)
<b>Connections</b>	Connectors are available inside the enclosure; cable is available outside through a stuffing box. A 8-point clamp cage terminal is dedicated to Ethernet signals, 2 additional points are used for the power supply cable, antenna is connected to a waterproof RSMA connector
<b>IEEE 802.11b network</b>	Compliant to the IEEE 802.11b (g compatible), DSSS, 2.4 GHz wireless 11 Mbps Ethernet recommendation, 300 m nominal range (open space), 60 m in other cases, the 11 Mbps data rate is automatically reduced (auto-fallback system) to 5.5, 2 and 1 Mbps for greater range and/or better signal immunity
<b>Channels</b>	13 channels for Europe, 11 channels for USA & Canada, 14 channels for Japan
<b>Sensibility</b>	Transmitter +15 dBm, receiver -84 dBm (typical)
<b>Modulation</b>	CCK, BPSK, QPSK
<b>Security</b>	4 independent 64/128 bits WEP « Wired Equivalent Privacy » keys (alphanumeric or hexadecimal)
<b>Functions</b>	Access Point, Ethernet Bridge, wireless MODBUS/TCP data gateway
<b>Administration</b>	From a web browser, no specific software is needed on the computer
<b>Operating systems</b>	Windows, Linux, UNIX as well as any operating system supporting TCP/IP, firmware download for easy upgrade
<b>Signaling</b>	LEDs indicate LAN & WLAN activity
<b>Power Supply</b>	7-60 VDC wide range power supply & power over Ethernet « POE » IEEE 802.3af
<b>Consumption</b>	3 Watts maximum
<b>Environment</b>	Operating temperature: -25° to +80°C (RH 0-99%), storage: -40° to +70°C
<b>Standards</b>	MIL-STD-810F methods 514.5 & 516.5 (shocks & vibrations) EN 301489-17 & EN 61000-6-2 (CEM), IP66 seal rating, UTAC E2
<b>Dimensions, weight</b>	Weight: 360g (with RJ54 Ethernet cable), dimensions : L: 115 x W: 64 x H: 35 mm

## Reference to order

WL-ABOARD/N	Access Point & WiFi Ethernet Bridge, DC 7-60V power supply, POE IEEE 802.3af, built-in antenna and RSMA connector for an external antenna, RJ45 Ethernet cable
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ACKSYS : ZA Val Joyeux – 10 Rue des Entrepreneurs – F78450 VILLEPREUX (France) – Tel. +33 1 30 56 46 46  
Fax +33 1 30 56 12 95 - E-Mail : [sales@acksys.fr](mailto:sales@acksys.fr) - Web : [www.acksys.fr](http://www.acksys.fr) - N° NATO FA2 F6

Distribución: **ER-SOFT, S.A.** Email: [er@er-soft.com](mailto:er@er-soft.com), Tel: +34 916 408 408