

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

Bridge mode	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
Access Point mode	Access Point for IEEE 802.11b and IEEE 802.11g equipments connection
Ethernet network	RJ45 10 BASE T Ethernet interface (10/100 compatible)
Connections	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
IEEE 802.11b network	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
Channels	13 channels for Europe, 11 channels for USA & Canada, 14 channels for Japan
Sensibility	Transmitter +15 dBm, receiver -84 dBm (typical)
Modulation	CCK, BPSK, QPSK
Security	4 independent 64/128 bits WEP « Wired Equivalent Privacy » keys (alphanumeric or hexadecimal)
Functions	Access Point, Ethernet Bridge, wireless MODBUS/TCP data gateway
Administration	From a web browser, no specific software is needed on the computer
Operating systems	Windows, Linux, UNIX as well as any operating system supporting TCP/IP, firmware download for easy upgrade
Signaling	LEDs indicate LAN & WLAN activity
Power Supply	7-60 VDC wide range power supply & power over Ethernet « POE » IEEE 802.3af
Consumption	3 Watts maximum
Environment	Operating temperature: -25° to +80°C (RH 0-99%), storage: -40° to +70°C
Standards	MIL-STD-810F methods 514.5 & 516.5 (shocks & vibrations) EN 301489-17 & EN 61000-6-2 (CEM), IP66 seal rating, UTAC E2
Dimensions, weight	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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