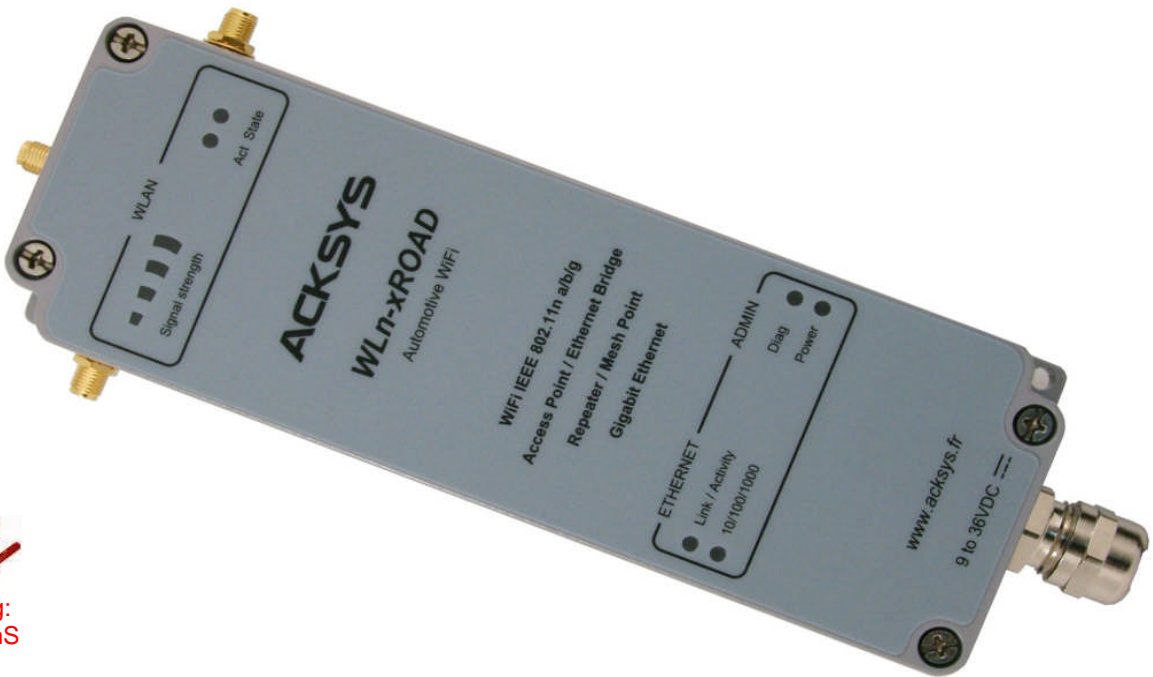


# 11n WiFi Access Point, Ethernet Bridge, Repeater & MESH point for automotive & heavy duty applications



Rapid roaming:  
Less than 50 mS

- WiFi IEEE 802.11n a/b/g radio (MIMO 3T3R), up to 300 Mbps radio bit rate
- MESH, WMM QoS, multiple SSID and centralized RADIUS security support
- Web based configuration, SNMP administration
- Auto-sensing Gigabit 10/100/1000 Base TX auto MDI/MDIX network interface
- DC power supply input (+9VDC to +36VDC)
- Shockproof & vibration proof rugged aluminum enclosure, IP66 seal rating

## WLn-xROAD series

IEEE 802.11n a/b/g  
WiFi 2.4 / 5 GHz



5-YEAR WARRANTY



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

The device relies on the multi-streams MIMO technology that contributes to an expanded coverage, higher data throughput and increased radio link reliability.

It fulfills the most severe requirements in terms of operating environment: from -25°C to +70°C, shockproof and vibration proof, protection against dust and water projections (IP66).

WLn-xROAD 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 OVERVIEW

<b>Ethernet link</b>	Gigabit 10/100/1000 auto-sensing Ethernet port (terminal block inside the enclosure), plug & play mode & auto MDI/MDIX cross-over
<b>WiFi network</b>	Compliant to the IEEE 802.11n a/b/g MIMO 3T3R, 2.4 / 5 / 5.4 GHz standards
<b>Radio data rate</b>	300 Mbps
<b>Radio channels</b>	2.4 GHz: 13 channels in b/g, 7 channels in 11n / 5 GHz: 19 channels in a/h, 11 channels in 11n
<b>Output power</b>	Transmitter +20 dBm (TPC)
<b>Sensitivity</b>	Receiver -92 dBm for IEEE 802.11 a/g/n and -95 dBm for IEEE 802.11b
<b>Antennas connections</b>	Up to three 2.4 / 5 GHz MIMO antenna, RP-SMA type connectors
<b>Modulation</b>	OFDM: BPSK, QPSK, 16QAM, 64QAM / DSSS: DBPSK, DQPSK, CCK
<b>Security</b>	64/128 bits WEP, WPA-PSK, WPA2-PSK, IEEE 802.1x (centralized RADIUS authenticator & supplicant), MAC addresses filtering, SSID broadcast control
<b>Modes</b>	Access point to build a WiFi network infrastructure, Bridge to connect any Ethernet equipments to this network, MODBUS/TCP wireless gateway, repeater, MESH point (IEEE 802.11s), infrastructure, AD-HOC, bridge router, turbo roaming (less than 50 mS single channel), WMM QoS, multicast and IGMP-Snooping modes are fully supported.
<b>Administration</b>	Built-in WEB interface, the setup of the device is achieved using any web browser, SNMP agent, ACKSYS NDM
<b>Operating systems</b>	Windows, Linux, UNIX as well as any operating system supporting TCP/IP
<b>Signaling</b>	LEDs signaling for radio quality, activity and status, Link 10/100/1000 and activity for the LAN port
<b>Power supply</b>	DC power supply (+9VDC to +36VDC), terminal block inside the enclosure
<b>Consumption</b>	10W typical power consumption
<b>Dimensions &amp; weight</b>	Shockproof rugged aluminum enclosure, (L: 185 x W: 64 x H: 35 mm), 450 g with the cable and without the antennas
<b>Standards</b>	MIL-STD-810F method 514.5 & 516.5 (shocks & vibrations), IP66 seal rating EN 301489-17 & EN 61000-6-2 (CEM), UTAC E2 (2004/104)
<b>Environment</b>	Operating temperature: -25°C to +70°C (HR 0-99%), storage: -40°C to +80°C

## References to order

WLn-xROAD/.N	WiFi Access Point, Ethernet Bridge, Repeater & MESH point (IEEE 802.11n a/b/g) for automotive applications, power input from +9VDC to +36VDC, shipped with 3 dual band 2 dBi omnidirectional (2.4 / 5 GHz) antenna and 2 meters of Ethernet RJ45 cable & power cable
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