

WLI-E

Industrial WLAN



Licence free M2M*



Wi-Fi 802.11b/g

E for Embedded systems

The Wireless LAN WLI-E interface has been created for applications which need reliability robustness in rough environments and embedded systems: tramways, bus, trucks, tower cranes, rolling cranes, etc.

The WLI-E module provides IP66 index protection thanks to its aluminum case and its two M12 tight normalized connectors (one for the power supply and one for the Ethernet connection). It can be put directly outside next to the antenna which is put on directly or can be deported (N male connector). It supports Access Point, WDS (client or AP) modes, and offers advanced possibilities, such as table and channels scan.

The configuration is made by its very intuitive web interface, with many integrated test and diagnostic utilities (output test, statistics, ARP table, activity Log, site survey, etc.). The configuration can also be made by TELNET, SSH, or HTTPS.

The industrial Wi-Fi WLI-E interface will satisfy you by its easy assembly and configuration, its robustness, and its performances and technical possibilities.

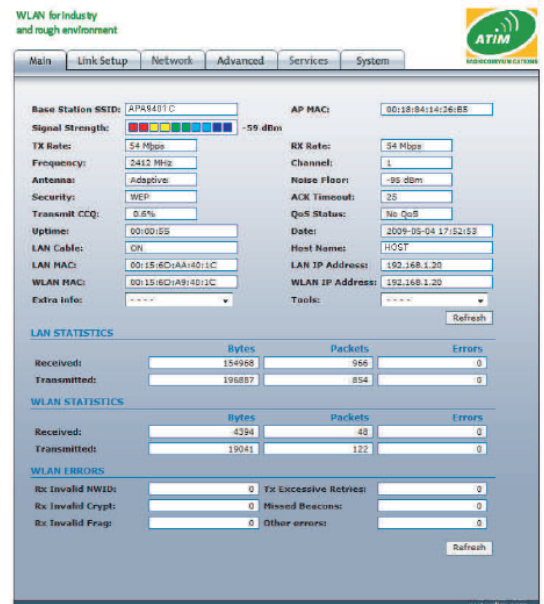
Applications are many, for video transmission, sound transmission, data on TCP/IP, or link different systems, like industrial automaton, acquisition centrals, supervision centrals, etc.

- ▶ Industrial WLAN interface for **rough environments**
- ▶ **International standard**, without license 802.11b/g 2,4GHz (also exists in 802.11a 5 GHz)
- ▶ Excellent **quality/price** ratio
- ▶ **AP** (access point), **client**, **bridge** mode
- ▶ Configuration with **web page** (local) or in a distance + Telnet
- ▶ **Front LEDs** for visualization of functioning and reception level
- ▶ **Advanced functions** : WPA2, watchdog, SSH, SNMP
- ▶ **Q.O.S (quality of service)** function
- ▶ **IP66 case** for outside use, M12 connectors (version with resin in option)

APPLICATION TYPES

TRANSPORT, INDUSTRY, BUILDING TRADE

- Bus, tramways, trains, subways, etc.
- Rolling cranes
- Tower cranes, building sites vehicles
- Embedded camera



* Machine to Machine

WLI-E

Wireless Lan
for Industrial and
Embedded applications

Aluminum case
IP66 tightness
Dedicate to rough
environment and embedded
applications

M12 tight connection
Weight: ~ 500g



Recommended antennas

ANT2400-F5: antenna 5dBi (direct mounting)
ANT2400-O8: collinear antenna 8dBi (for pole)
ANT2400-P9,P15: pannel antenna dBi, 15dBi(directive)
ANT2400-R15,R20: reflector antennae 15/20dBi
(directive). Use the low loss cable CFP10 (with 2,4GHz)
ANT5800-F5: antenna 5dBi (direct mounting)

Articles references

WLI-E/24 : version 802.11b/g (2.4GHz)
WLI-E/58 : version 802.11a (5.8GHz)
FIX-RD1 : option for rail DIN fixation
WLI-E-CAB : cable kit (1 Ethernet + 1 power supply)

CONNECTIONS

IP66 tight connectors:

- M12 female coding D 4 points (Ethernet LAN)
- M12 male 5 normalized pins (power supply 9-39V)
- 1 N male antenna connector

Technical specification

FUNCTIONNALITIES :

- Wireless network interface 802.11a/b/g (2 versions) multimode
- Output: 1 to 54Mbps (802.11a and 802.11g) / 1 to 11Mbps (802.11b)
- Powerful, intuitive and evolving firmware

GENERAL INFORMATION

CONFIGURATION :

- By embedded web page, secured by password
- Backup parameters in EEPROM
- TELNET, SSH, HTTPS modes

SECURITY

- WEP WAP WPA2 AES encryption
- MAC addresses filtering
- SSID broadcast deactivation
- Firewall and traffic limitation options

ENVIRONMENT :

- Functioning temperature: -25°C to +70°C
- Storage temperature: -40°C to +80°C
- Humidity: 0 to 95% without condensation

NORMALIZATION :

- CE directives <en300328 / healthy REC519 / EN301489 / 2004/104/CE (strengthening norm for moving vehicles).
- Compatible RoHS

LIGHTS :

- 1 power supply LED
- 1 network LED
- 4 reception level RSSI LEDs

RADIO INTERFACE

Standard IEEE802.11.a (5.745-5.825GHz) or 802.11/b/g (2.412-2.462GHz)

Modulation: OFDM (802.11a/g) DSSS(802.11b)

Emission power: adjustable, max 20dBm (10mW) (22dBm in version A)

Sensibility in reception: tolerance +/-1.5dBm

802.11b: -95dBm @ 1Mbps / -90dBm @ 11Mbps

802.11g: -92dBm @ 6Mbps / -72dBm @ 54Mbps

802.11a: -94dBm @ 6Mbps / -74dBm @ 54Mbps

POWER SUPPLY

9-39Vcc external with M12 connector (possibility POE version if big sales volume)

Maximum consumption: 250mA @ 12Vcc



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