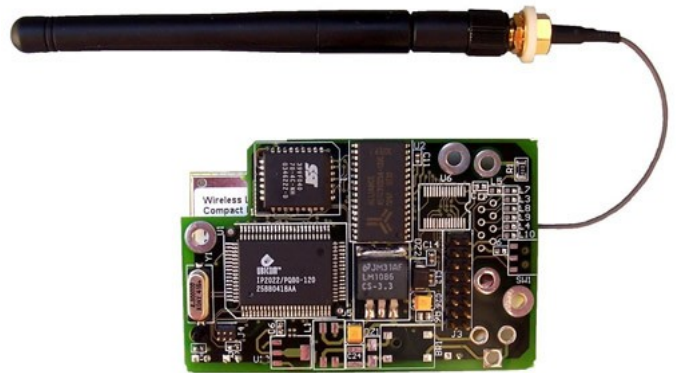


# Compact & affordable serial to Ethernet WiFi radio gateway



WL-DONGLE



WL-DONGLE-OEM-TTL  
WL-DONGLE-OEM-232

- Connect any serial peripheral to the wireless WiFi Ethernet network
- 300 m nominal range (open space)
- Secured data transfer (WEP keys)
- Features virtual cable, infrastructure & COM port redirection modes
- Robust metal case (Dongle), **CE** industrial standards
- OEM models available (PCB) with serial TTL or serial RS232 signals level

## WL-DONGLE

IEEE 802.11b  
WiFi 2,4 GHz

Certified  
RF module



5-YEAR WARRANTY (1)



### Wireless serial port server over (WiFi IEEE 802.11b)

WL-COMETH gives access to any serial equipments from Windows, Unix & Linux computers connected to your wireless IEEE 802.11 (b or g) Ethernet TCP/IP network , make it possible to communicate between two distant serial equipments through the network, or directly with a peer to peer connection (AD-Hoc mode).

The support of the Telnet (RFC 2217) extension associated to a COM ports re-director enables distant serial equipments connected to the COMETH to be directly used by Windows & Linux existing applications using standard COM ports.

Integrators and manufacturers (point of sales, medical instrumentation, industrial automation, security systems, building automation ...) can right now rely on this new technology to build safety wireless network applications while freeing themselves from wiring constraints.

Note (1) : One year for OEM models.

# TECHNICAL CHARACTERISTICS

<b>Serial port</b>	Single asynchronous serial port, up to 250 Kbps 7 or 8 bits per character, 1 or 2 stop bits; even, odd, mark, space or no parity Hardware hand-shake (RTS/CTS) and/or software hand-shake (XON/XOFF)
<b>RS signals available</b>	RS232 interface models: TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI TTL interface models: TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI
<b>Connectors</b>	SUB D9 male connector for the RS232 model, 16 points HE10 connector for the TTL OEM model, Hirose UFL coaxial antenna connector for OEM models
<b>Protection</b>	15KV ESD protection with HF signal filtering, industrial <b>CE</b> conformity
<b>IEEE 802.11b network</b>	Compliant to the IEEE 802.11b, 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, built-in antenna and RSMA external antenna connector for long distance (up to 20 Km depending to countries)
<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>Operating modes</b>	Support for TCP Client/Server, DHCP Client, TELNET RFC2217 extension, Telnet Server, COM port re-director (VIP), multipoint or point to point virtual link over UDP modes and MODBUS/TCP Client/Server, MODBUS/RTU & MODBUS/ASCII protocols, direct communication (ad hoc) or from access point
<b>Administration</b>	From the serial link, from the WiFi network (TELNET) or from your web browser, firmware wireless download for easy upgrade
<b>Operating systems</b>	Windows, Linux, UNIX as well as any operating system supporting TCP/IP
<b>Signalling</b>	TxD / RxD serial and WLAN radio activity on LEDs
<b>Power supply</b>	External +5VDC power supply on jack type connector on WL-DONGLE model (included), +3.3VDC & +5VDC on the HE10 connector for OEM models
<b>Consumption</b>	3 Watts maximum
<b>Dimensions</b>	Case L:79 x W:58 x H:23 mm, 184 g / OEM PCB (without antenna) L:76 x W:50 x H:18 mm, 36 g
<b>Environment</b>	Operating temperature : -10°C to +60°C, storage : -40 to +80°C

## References to order

WL-DONGLE	Single RS232 serial port server over wireless Ethernet network (WiFi), with Windows & Linux COM port redirector software licence, MODBUS/TCP gateway support, power supply, built-in 2dBI antenna and RSMA connector for an external antenna
WL-DONGLE-OEM	Single RS232 serial port server over wireless Ethernet network (WiFi), shipped without the following items : antenna, antenna cable, COM port redirector software licence, power supply (per quantities only)  Add the -TTL suffix (HE10) or -232 suffix (SUB D9) to specify the serial link interface level (OEM models only)
WL-KIT-ANT1	Antenna with MicroFLH connector (OEM models only)

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