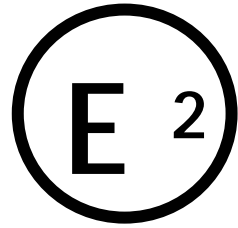


Wireless RS232 / RS422 / RS485 serial device server for automotive applications



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- Serial RS232 / RS422 / RS485 full duplex up to 250 Kbps
- 7-60 VDC wide range power supply
- MIL-STD-810 shockproof rugged IP 66 aluminum enclosure
- Point to Point (virtual cable) & multipoint modes
- Virtual COM port redirector (VIP)
- TCP Client / Server, UDP & MODBUS/TCP support

WL-ABOARD/S

IEEE 802.11b
WiFi 2.4 GHz

RF Module
certified



5-YEAR WARRANTY



WL-ABOARD/S 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

Serial port	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)
RS signal available	RS232 mode: TxD, RxD, RTS, DTR, CTS, DCD, DSR, RI RS422/485 mode: -Tx, +Tx, -Rx, +Rx ⁽¹⁾
Connectors	Connectors are available inside the enclosure; cable is available outside through a stuffing box. A 9-point clamp cage terminal is dedicated to serial signals, 2 additional points are used for the power supply cable, antenna is connected to a waterproof RSMA connector
Protection	15KV ESD protection with HF signal filtering, UTAC transportation E2 conformity
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 (alphanumerical or hexadecimal)
Operating modes	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
Administration	From the serial port or through the radio WiFi Ethernet network (Telnet), firmware download for easy upgrade
Operating systems	Windows, Linux, UNIX as well as any operating system supporting TCP/IP
Signaling	TxD / RxD serial and WLAN radio activity on LEDs
Power supply	7-60 VDC wide range power supply
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: 375g (with 40 cm serial cable), dimensions : L: 115 x W: 64 x H: 35 mm

(1) : RS422/485 +RX and -RX signals can be polarized (jumpers)

Reference to order

WL-ABOARD/S	Wireless RS232/RS422/RS485 device server over Ethernet IEEE 802.11b (WiFi), with Windows COM port redirector software (VIP), MODBUS/TCP data gateway, MODBUS/TCP gateway support, 7-60 VDC power supply, built-in antenna and RSMA connector for an external antenna, 40 cm serial cable with male SUB D9 connector
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