

The WLAN-Clientadapter for 802.11 a/b/g

The WLAN-Clientadapter is used for operation in 54 Mbit wireless networks according to 802.11a or 802.11g standard. The application of a 32-bit micro controller improves the performance of the transmission rate substantially.

In addition to the standard encryption further security measures according to 802.11i standard (WPA, TKIP) are available.



Connection of 2 Serial Devices (RS 232) + 1 LAN to a WLAN

- No modification of hard- or software required
- Transmission rate up to 115 kBit
- 2nd serial port optional as RS 485
- Transparent, bidirectional transmission with all control lines (possible)
- LAN port with 10/100 Mbit Auto MDI / MDIX

Perfectly Suitable for Mobile Vehicles as Fork Lift Trucks and AGVs

- Input voltages 8 to 30 VDC standard, 9 to 36 or 18 VDC galvanically separated for battery operation
- Stable aluminium casing with different options for fixing (strap, mounting rail)
- Current consumption < 3 W, ideal for standby of battery-powered vehicles
- Voltage supply and relay contact for screwable M8 miniature plugs
- Temperature range 0 to 70° C
- 1 or 2 antenna connectors optional (diversity)
- Relay contact – triggered via WLAN for re-activation of vehicles in standby mode
- Different antenna plugs, RP-SMA (standard), RP-TNC
- Galvanically separated input for switch for triggering a programmable function



Latest Technology and Superior Usability

- 32 Bit / 250 Mhz processor with low current consumption, run-up period < 10 s
- Encryption according to WEP with 64/128 Bit, authentication according to 802.11i (WPA)
- WLAN card applicable from different producers (mini PC)
- Data rates up to 54 Mbit/s
- Configuration and software updates with WEB browser via LAN and WLAN
- 2.4 GHz or 5.4 GHz frequency band
- Restore default configuration – if the configuration was not realized as supposed to
- Compatible to former Access Points according to 802.11b / 11 Mbits

Special Flexibility

- Customized Software adaptation
- Prompt adjustment to your particular requirements / special hardware / interface adjustment
- Experience in facilitating small or extensive projects / system assistance (support)

WLAN Interface

- Bridge function max. 50 clients, ARP, IP
- Encryption 64, 128 Bit WEP
- Security WPA (WiFi Protected Access) (PSK / TKIP)
- Data rates 802.11b:
11, 5.5, 2, 1 MBit/s
- 802.11g:
54, 48, 36, 24, 18, 12, 9, 6 MBit/s
- 802.11a:
54, 48, 36, 24, 18, 12, 9, 6 MBit/s
- Frequencies ISM-band 2.400 GHz-2.483 GHz
- U-NII band 5.150 GHz to 5.350 GHz (ETSI, RegTP indoor)
- 5.470 GHz - 5.725 GHz (ETSI, RegTP outdoor)
- Channels 802.11b/g ETSI: 1-13 (3 non overlapping)
- 802.11a: ETSI 12 non overlapping
- Transmission power 802.11b/g 18 dBm peak
- 802.11a: 18 or 17 dBm

Technical Data

- Processor	32 Bit, 250 MHz, 4 MByte Flash
- Ethernet	10-100 MBit Auto MDI/MDIX
- Serial	2x RS 232, 1200 - 125 kBit/s, RTS, CTS, DSR, DTR, DCD, RI optional 1x RS 232 + 1x RS 422 / RS 485 to 2 Mbit/s
- Relay	1x on or 1x off, configurable, max. 1 A @ 24 V, max. 125 VAC
- Switching Input	galv. separated by optocoupler
- Current Supply	8 to 30 VDC, optional 9 to 36 VDC / 18 to 72 VDC galv. separated, <3 W
- Temperature Range	0 to 70° C
- Ground + Weight	105 x 125 x 40 mm, approx. 470 g