



# WLAN-MODULE-XXR



## WLAN – Module to integrate serial terminal equipments in a network

Using the WLAN-MODULE-XXR you can now integrate two serial terminal equipments in a network by a **wireless** connection. This device server offers two **RS232** or **RS485** interfaces, **WLAN** and **Ethernet10/100** and is equipped with all necessary connections. The integrated Wireless LAN offers all necessary protocols such as **IEEE802.11b**, **IEEE802.11g** as well as **IEEE802.11n** (Draft 3.0) to allow you an easy and simple integration. In addition, all necessary and state-of-the-art security functions such as **WEP 64/128 Bit**, **WPA1** and **WPA2 Personal** have been integrated and hence offer you the highest security standard. The device is equipped with an **external antenna** and offer max. **150MBps** thus there are no limits with regards to its performance. Its flexibility and diversity is completed by the various additional functions and emulations of the **AK-NORD TCP/IP-STACK** as well as by the robust metal housing.

## Hardware description



## Supported OS

1. Microsoft Windows 7
2. Microsoft Windows Vista
3. Microsoft Windows 2003
4. Microsoft Windows 2000
5. Microsoft Windows XP
6. Microsoft Windows NT 4.0
7. Microsoft Windows ME
8. Microsoft Windows 98
9. Microsoft W95
10. Linux
11. UNIX

## Technical Data

- **Dimensions:**  
100 x 28 x 110 mm (WxHxL)
- **Temperature range:**  
-10°C .. + 65°C
- **EMC (electromagnetic compatibility):**  
Radio interference and interference immunity
- **Power supply:**  
5 Volt 380 mA
- **Note**  
All voltages are switchable to the Pin 9 of the serial interface by using internal jumpers.
- **SD-CARD-slot (internal)**  
Up to 4 GBytes  
FAT16  
PC-compatible
- **RS232**  
Baud rate : up to 230Kbaud  
DataBits: 7,8  
Parity: Odd,Even,None  
Mark,Space  
Signals : TXD, RXD, RTS, CTS, DSR, DTR, DCD,RI, GND
- **RS485**  
Baud rate : up to 230Kbaud  
DataBits: 7,8  
Parity: Odd,Even,None  
Mark,Space  
Signals : TXD, RXD, GND
- **Ethernet (MDIX)**  
10 Half Duplex  
10 Full Duplex  
100 Half Duplex  
100 Full Duplex  
AutoSensing
- **WLAN 1T1R**

## Supported protocols

1. IP
2. TCP
3. UDP
4. FTP
5. TFTP
6. ICMP
7. ARP
8. SNMP
9. LPR
10. DHCP
11. BOOTP
12. DNS
13. TELNET
14. HTML
15. http
16. DYNDNS
17. SMTP
18. POP3
19. SYSLOG

## Management

1. Telnet
2. Browser
3. serial Interface

## WLAN - Specification

- **Functions** **ADHOC / INFRA – Mode**  
**Fast-Roaming**  
**AutoConnection** with Wi-Fi Protected Setup (WPS-PBC)  
Hardware **WEP, TKIP, AES** Engine  
WEP 64Bit and 128Bit up to 4 Keys
- **IEEE802.11b:** 1, 2, 5.5, 11Mbps
- **IEEE802.11g:** 6, 9, 12, 24, 36, 48, 54Mbps
- **IEEE802.11n:** (Draft 3.0) up to 150Mbps  
legacy, mixed and green field modes, supports 20/40 MHz band width MCS0- 7 (150Mbps PHY rate support)
- **IEEE 802.11d:** World Mode (US, CA, EU, JP)
- **IEEE 802.11e:** Wi-Fi WMM-QoS "Quality of Service"  
Wi-Fi WMM-PS "Power Save"
- **IEEE802.11h:** DFS (Dynamic Frequency Selection)  
TPC (Transmission Power Control)
- **IEEE 802.11i:** WPA1- and WPA2-Personal
- **IEEE802.11j:** Operation in Japan

## Emulations and functions

- Modem Emulation
- Connect-On-Data
- Auto-Connect
- Tunnel-Mode
- DYNDNS-Client
- FTP-Server
- LPR-Server
- TTL – IO
- 2MB Flashdrive
- Flash-File-System
- SD- and DF-CARD
- E-Mail – Client
- TCP/UDP -Client
- TCP/UDP –Server
- SYSLOG-Client