



# AK- RailPort -XXR



## Industrial - WLAN – device server to integrate serial terminals into a network

Using the AK- RailPort -XXR it is possible to integrate **wireless** two serial terminals into a network. This industrial device server with its two **RS232** or **RS485** interfaces **WLAN** and **Ethernet10/100** is equipped with all necessary connections. The integrated Wireless LAN includes all necessary protocols such as **IEEE802.11b**, **IEEE802.11g** as well as **IEEE802.11n** (Draft 3.0), in order to allow you simple and easy integration. Furthermore, all required and modern safety functions such as **WEP 64/128 Bit**, **WPA1** and **WPA2-Personal** are integrated and thus offering the highest safety standard. With an **external antenna** as well as a maximum of **150Mbps** there are no limits in its performance. It can be plugged on each 35mm top hat / DIN rail EN 60715 (50022).

## Technical data

- **Dimensions:**  
87 x 62 mm (WxH)
- **Temperature range:**  
-10°C .. + 65°C
- **Standards**  
CE / WEEE / RoHS  
EN 55022 Class B  
EN 55024 Class A
- **System of protection**  
IP30
- **Power supply:**  
7-32 volts / 2,2 watt  
(such as 12 volts = 180mA)
- **Fixture**  
35mm top hat / DIN rail  
EN 60715 (50022)
- **Connections RS485**  
Removable socket terminal strips  
included threaded terminal end  
Grid 5.08mm
- **Connections RS232**  
9Pol Sub-D pin
- **RS232**  
Baud rate : up to 230K Baud  
DataBits : 7,8  
Parity : Odd,Even,None  
Mark,Space  
Signals : TXD, RXD, RTS,  
CTS, DSR, DTR,  
DCD,RI, GND
- **RS485**  
Baud rate : up to 230K Baud  
DataBits : 7,8  
Parity : Odd,Even,None  
Mark,Space  
Signals : TXD, RXD, GND
- **SD CARD slot**  
up to 4 GByte  
FAT16  
PC compatible
- **Ethernet (M-DIX)**  
10 Half Duplex  
10 Full Duplex  
100 Half Duplex  
100 Full Duplex  
AutoSensing
- **WLAN**  
1T1R

## Supported systems

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

## Supported protocols IP-Dual-Stack

- |            |                  |
|------------|------------------|
| 1. IPv4    | 20. IPv6         |
| 2. TCP     | 21. NDP          |
| 3. UDP     | 22. ICMPv6       |
| 4. FTP     | 23. DHCPv6       |
| 5. TFTP    | 24. TCPv6        |
| 6. ICMP    | 25. UDPv6        |
| 7. ARP     | 26. Netbios-NS   |
| 8. SNMP    | 27. LLNMR        |
| 9. LPR     | 28. ZeroConfig   |
| 10. DHCP   | -APIPA           |
| 11. BOOTP  | -AutoIP          |
| 12. DNS    | 29. IP-Multicast |
| 13. TELNET |                  |
| 14. HTML   |                  |
| 15. http   |                  |
| 16. DYNDNS |                  |
| 17. SMTP   |                  |
| 18. POP3   |                  |
| 19. SYSLOG |                  |

## WLAN specification

- **Functions**      **ADHOC / INFRA – Mode**  
**Fast-Roaming**  
**AutoConnect** by Wi-Fi Protected Setup (WPS-PBC)  
Hardware **WEP, TKIP, AES** Engine  
WEP 64Bit and 128Bit with 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 (automatic channel selection)  
TPC (transmitting power adaptation)
- **IEEE 802.11i:** WPA1- and WPA2 personnel
- **IEEE802.11j:** Operation in Japan

## Management

1. Telnet
2. Browser
3. serial interface

## Emulations and functions

- Modem Emulation
- Connect-On-Data
- Auto-Connect
- Tunnel-Mode
- DYNDNS-Client
- FTP-Server
- LPR-Server
- TTL – IO
- 20KB Flashdrive
- Flash-File-System
- SD- and DF-CARD
- E-Mail – Client
- TCP/UDP -Client
- TCP/UDP –Server
- SYSLOG-Client

## Views

