



# Technical data sheet

## AK-RailPort-XXR



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## 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).

### Views



### 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

### 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- und DF-CARD
- E-Mail – Client
- TCP/UDP -Client
- TCP/UDP –Server
- SYSLOG-Client

## 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)

### WLAN

1T1R

### 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

### Ethernet (M-DIX)

10 Half Duplex  
10 Full Duplex  
100 Half Duplex  
100 Full Duplex  
AutoSensing

### 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

## WLAN specification

<b>Funktionen:</b>	ADHOC / INFRA – Modus Fast-Roaming AutoConnect durch Wi-Fi Protected Setup (WPS-PBC) Hardware WEP, TKIP, AES Engine WEP 64Bit und 128Bit mit bis zu 4 Keys
<b>IEEE802.11b:</b>	1, 2, 5.5, 11Mbps
<b>IEEE802.11g:</b>	6, 9, 12, 24, 36, 48, 54Mbps
<b>IEEE802.11n:</b>	(Draft 3.0) bis 150Mbps legacy, mixed and green field modes, supports 20/40 MHz band width MCS0- 7 (150Mbps PHY rate support)
<b>IEEE 802.11d:</b>	World Mode (US, CA, EU, JP)
<b>IEEE 802.11e:</b>	Wi-Fi WMM-QoS "Quality of Service" Wi-Fi WMM-PS "Power Save"
<b>IEEE802.11h:</b>	DFS (automatische Kanalwahl) TPC (Sendeleistungsanpassung)
<b>IEEE 802.11i:</b>	WPA1- und WPA2-Personal
<b>IEEE802.11j:</b>	Operation in Japan

## Supported protocols IP-Dual-Stack

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

## Management

1. Telnet
2. Browser
3. Serial Interface