



# Technical data sheet

## AK-DinRail-XXR



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

Using the AK-DinRail-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) and has a width of only 35mm.

### 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. LLMNR        |
| 9. LPR      | 28. ZeroConfig   |
| 10. DHCP    | - APIPA          |
| 11. BOOTP   | - AutoIP         |
| 12. DNS     | 29. IP-Multicast |
| 13. TELNET  |                  |
| 14. HTML    |                  |
| 15. http    |                  |
| 16. DYN DNS |                  |
| 17. SMTP    |                  |
| 18. POP3    |                  |
| 19. SYSLOG  |                  |

### Management

1. Telnet
2. Browser
3. Serial Interface

### 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
- DYN DNS-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:

35 x 120 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 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

### 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

## 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