
VK224

4-Port Serial Expansion Box



The VK224 provides Ethernet-to-serial connectivity with 4 bi-directional RS-232 / 422 / 485 serial ports. It allows users to remotely access serial devices from a PC or any system located anywhere. The complete Telnet CLI commands are fully integrated into users' commercial and industrial applications.

What's more, the VK224 serves as a flexible expansion box of the [ATEN Control System](#), enabling users to control additional serial devices through an ATEN controller in any environments where more serial devices are required. With the advantage of Ethernet-based connection, the expansion box can be easily connected to controllers via LAN connection from a variety of locations across a network.

Accessories:

*The power adapter for this product is sold separately. For more information about this accessory, see [Accessories](#).

Features

- An Ethernet-to-serial box ships with 4 bi-directional RS-232/422/485 serial ports
- Supports Power over Ethernet (PoE) or DC power supply
- Supports IEEE 802.1x authentication protocol for enhanced network security
- Supports Modbus protocol - enables integration with Modbus devices, including TCP, RTU and its checksum data
- Supports Telnet CLI (command-line interface) mode for third-party system integration
- WebUI provides VK224 system information, including firmware upgrade
- An expansion solution for connecting more serial devices to [ATEN Control System](#)
- Flexible deployment via Ethernet connection
- Works with a connected ATEN controller with ID Switch through instant configuration

Specifications

Interfaces																			
Serial	<ul style="list-style-type: none"> • 4 x Programmable Bi-directional RS-232/422/485 Port (4 x DB9 Male Connector, configurable via pin assignments); <ul style="list-style-type: none"> – Baud Rate: 300 to 115200 (default: 9600); – Data Bit: 8 (default) or 7; – Stop Bit: 1 (default) or 2; – Parity: None (default), Even or Odd; – Flow Control: None (default) RTS/CTS <table border="1"> <thead> <tr> <th>RS-232</th> <th>RS-422</th> <th>RS-485</th> </tr> </thead> <tbody> <tr> <td>Pin2: RX</td> <td>Pin 1:RX-</td> <td>Pin3:D+</td> </tr> <tr> <td>Pin3: TX</td> <td>Pin 2: RX+</td> <td>Pin 4:D-</td> </tr> <tr> <td>Pin 5: GND</td> <td>Pin 3: TX+</td> <td>Pin 5: GND (Highly recommended for long-distance connectivity.)</td> </tr> <tr> <td>Pin 7: RTS</td> <td>Pin 4: TX-</td> <td></td> </tr> <tr> <td>Pin 8: CTS</td> <td>Pin 5: GND</td> <td></td> </tr> </tbody> </table>	RS-232	RS-422	RS-485	Pin2: RX	Pin 1:RX-	Pin3:D+	Pin3: TX	Pin 2: RX+	Pin 4:D-	Pin 5: GND	Pin 3: TX+	Pin 5: GND (Highly recommended for long-distance connectivity.)	Pin 7: RTS	Pin 4: TX-		Pin 8: CTS	Pin 5: GND	
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Ethernet	<ul style="list-style-type: none"> • 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. The following default IP settings will be used if no IP is assigned within 30 seconds: IP: 192.168.0.60 Subnet Mask: 255.255.255.0 																		
Switches																			
Controller ID	1 x 16-segment Switch																		
Expander ID	1 x 8-segment Switch																		
Reset Button	1 x Semi-recessed Pushbutton																		
USB	1 x USB Type A																		
Power Consumption	DC5V:3.8W:28BTU/h DC48V:4.75W:33BTU/h Note: <ul style="list-style-type: none"> ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. 																		
Environmental																			
Operating Temperature	0 – 50°C																		
Storage Temperature	–20 – 60°C																		
Humidity	0 - 80% RH, Non-Condensing																		
Physical Properties																			
Housing	Metal																		
Weight	0.45 kg (0.99 lb)																		
Dimensions (L x W x H)	13.00 x 7.58 x 4.20 cm (5.12 x 2.98 x 1.65 in.)																		
Note	For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format.																		

Diagram

