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.
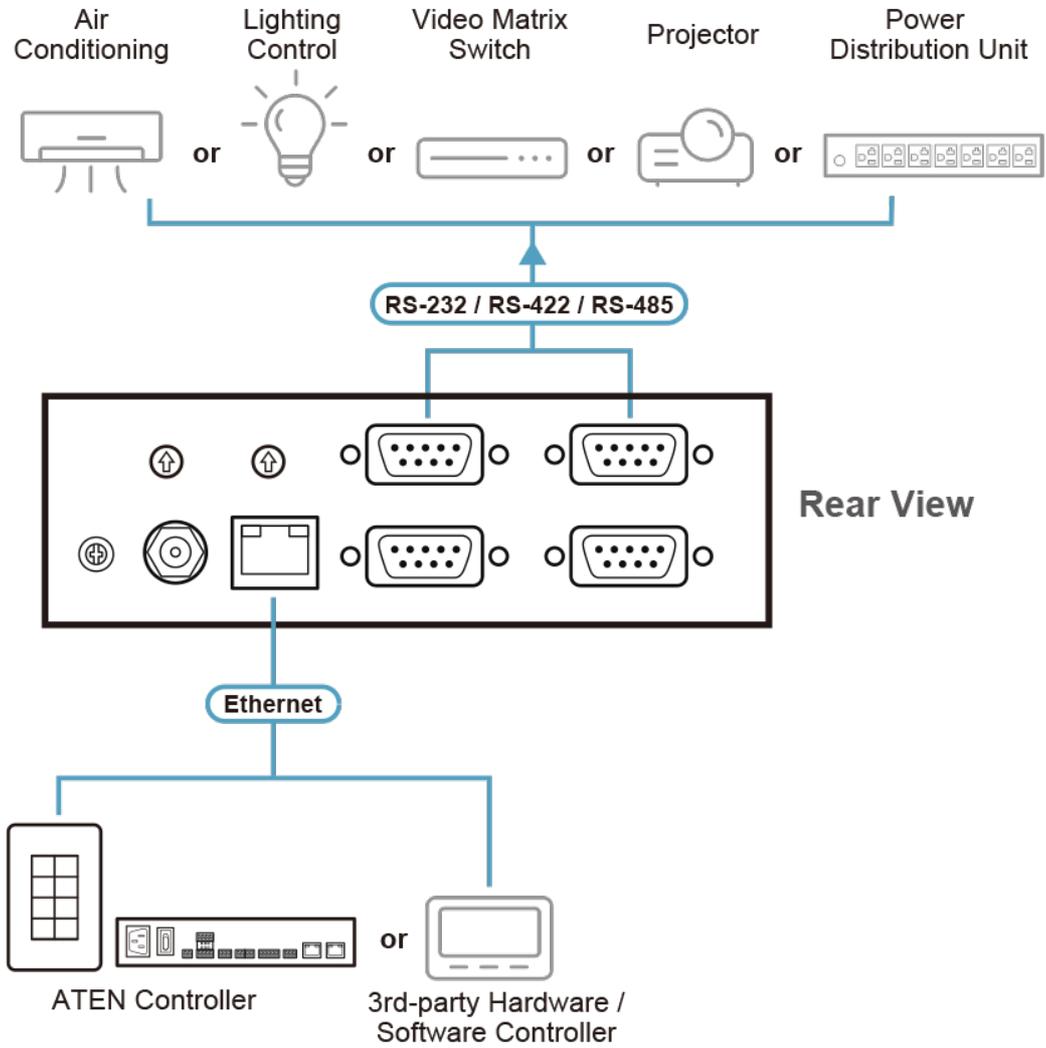
Features

- 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

Specification

Interfaces	
Serial	• 4 x Programmable Bi-directional RS-232/422/485 Port (4 x DB9 Male Connector, configurable via pin assignments); – 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

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	

Ethernet	• 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: ● 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

Air Conditioning or Lighting Control or Video Matrix Switch or Projector or Power Distribution Unit

RS-232 / RS-422 / RS-485

Rear View

Ethernet

ATEN Controller or 3rd-party Hardware / Software Controller