

4-Port Serial Expansion Box

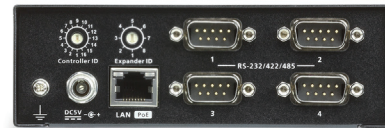
VK224

- The VK224 4-Port Serial Expansion Box provides four additional bi-directional RS-232 / 422 / 485 serial ports for a flexible expansion of the ATEN Control System. This allows users to control additional serial devices in an environment where more serial devices are required. With the advantage of an Ethernet-based connection, the expansion box can be easily connected to the VK2100 Control Box via a LAN connection from a variety of locations across a network.

Front view



Rear view



Features

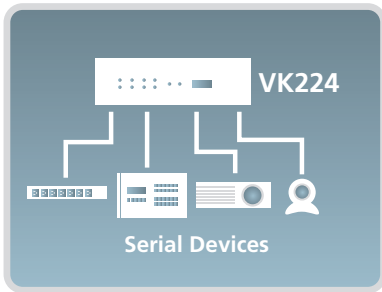
- Provides 4 bi-directional RS-232/422/485 serial ports to expand the ATEN Control System
- Up to eight VK224 expansion boxes can be added to a single VK2100 Control Box
- Flexible Deployment: Connects to a VK2100 Control Box via an Ethernet connection
- ID Switch pairs the VK224 with a controller to instantly configure the network settings
- Supports Power over Ethernet (PoE) or DC power supply
- Firmware upgradable through USB or Web interface

Highlights

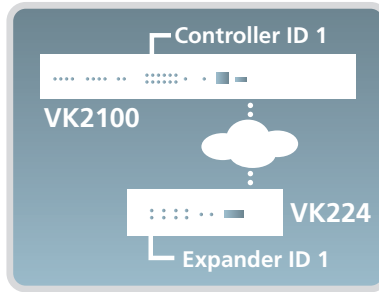
PoE Single Cable Installation	The VK224 is built with PoE which supplies power through the same Ethernet cable that connects it to the LAN – eliminating the need of an extra power source and extra wiring. In addition, the VK224 can be powered via a 5 VDC power adapter.
Expansion via Ethernet	With an Ethernet-based connection, the expansion boxes easily install close to the devices you need to control – anywhere across a network to the VK2100 Control Box. This provides a simple, full-proof solution for you to add device ports anywhere you need them.

Installation Setup

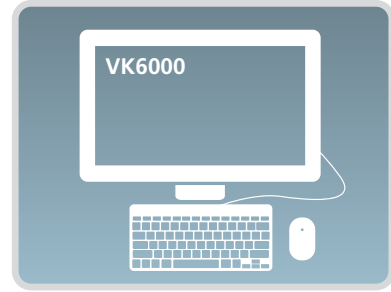
Connect Hardware



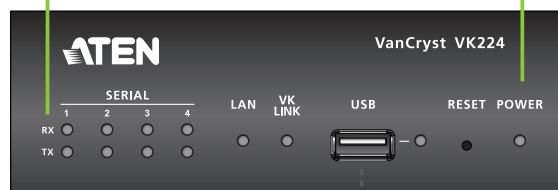
Set ID Switches



Software Configuration



LED indicators for hardware and connection status

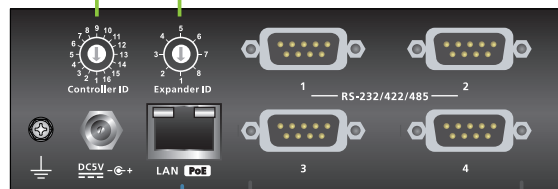


VK224 (Front)

USB port for easy firmware upgrades

VK2100 ID Switch

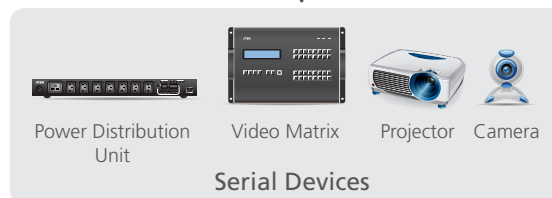
VK224 ID Switch



VK224 (Rear)



VK2100 (Control Box)



- USB
- Ethernet
- Serial

Specifications

Function	VK224																		
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); 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 																		
	Pin Assignments																		
	<table border="1"> <thead> <tr> <th>RS-232</th> <th>RS-422</th> <th>RS-485</th> </tr> </thead> <tbody> <tr> <td>Pin 2: RX</td> <td>Pin 1: RX-</td> <td>Pin 3: D+</td> </tr> <tr> <td>Pin 3: 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>-</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	Pin 2: RX	Pin 1: RX-	Pin 3: D+	Pin 3: TX	Pin 2: RX+	Pin 4: D-	Pin 5: GND	Pin 3: TX+	-	Pin 7: RTS	Pin 4: TX-	-	Pin 8: CTS	Pin 5: GND	-
	RS-232	RS-422	RS-485																
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	Pin 3: TX	Pin 2: RX+	Pin 4: D-																
Pin 5: GND	Pin 3: TX+	-																	
Pin 7: RTS	Pin 4: TX-	-																	
Pin 8: CTS	Pin 5: GND	-																	
Ethernet	<ul style="list-style-type: none"> 1 x RJ-45 Female, 10/100 Base-T Supported Protocol: 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 (Firmware upgrade only)																		
Power																			
Consumption	5 VDC, 7.5 W (adapter) ; 48 VDC, 9.5 W (PoE, PoE 802.3 AF/AT compatibility)																		
Output	5 VDC, 1.2 A																		
Environmental																			
Operating Temperature	0° to 50° C																		
Storage Temperature	-20° to 60° C																		
Humidity	0 - 80% RH, Non-Condensing																		
Physical Properties																			
Housing	Metal																		
Weight	0.45 kg																		
Dimensions (L x W x H)	13.00 x 7.60 x 4.20 cm																		

