

VK211

RS-232/Contact to USB Keyboard Converter User Manual

Compliance Statements

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Warning

Operation of this equipment in a residential environment could cause radio interference.

Achtung

Der Gebrauch dieses Geräts in Wohnumgebung kann Funkstörungen verursachen.



KCC Statement

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Industry Canada Statement

This Class A digital apparatus complies with Canadian ICES-003.

CAN ICES-003 (A) / NMB-003 (A)

HDMI Trademark Statement

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.



RoHS

This product is RoHS compliant.

User Information

Online Registration

Be sure to register your product at our online support center:

|--|

Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988
	1-949-428-1111

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

Package Contents

Check to make sure that all the components are in working order. If you encounter any problem, please contact your dealer.

The VK211 package consists of:

- 1 VK211 RS-232/Contact to USB Keyboard Converter
- 1 3-pin terminal block
- 1 5-pin terminal block
- 1 USB Type-B to USB Type-A cable
- 1 USB Micro-B to USB Type-A cable
- 1 foot pad set (4 pcs)
- 1 user instructions

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About this Manual

This User Manual is provided to help you get the most from your RS-232/ Contact to USB Keyboard Converter. It covers all aspects of the installation, configuration, and operation for the following models of the RS-232/Contact to USB Keyboard Converter.

An overview of the information found in the manual is provided below.

Chapter 1, *Introduction* introduces you to the RS-232/Contact to USB Keyboard Converter. Its purpose, features, and benefits are presented.

Chapter 2, Hardware Setup describes how to install the unit.

Chapter 3, *Configuration* explains the fundamental concepts involved in operating the RS-232/Contact to USB Keyboard Converter.

Chapter 3, *Configuration* details all of the concepts and procedures involved in the hotkey operation of your Multi-View KVMP™ Switch.

Appendix provides specifications and other technical information regarding the RS-232/Contact to USB Keyboard Converter.

Note:

- Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit and/or connected devices.
- The product may be updated, with features and functions added, improved, or removed since the release of this manual. For an up-to-date user manual, visit http://www.aten.com/global/en/.

Conventions

This manual uses the following conventions:

Monospaced Indic	ates text that vo	ou should key in.
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- [] Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
- 1. Numbered lists represent procedures with sequential steps.
- Bullet lists provide information, but do not involve sequential steps.
- Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start > Run means to open the Start menu, and then select Run.



Indicates critical information.

Terminology

Terminology	Description
ATEN Controller,	ATEN Controller or controller refers to all models of ATEN Control
controller	Box and ATEN Control Pad.
Project	A project is a set of configurations for an ATEN Control System,
	including configurations of one or more controllers and managed devices.

Chapter 1 Introduction

Overview

The RS-232/Contact to USB Keyboard Converter (VK211) makes remote control possible for PC-based devices or KVM switches (that do not have remote control capabilities) by converting control signals to full-range USB keyboard signals. With an RS-232 serial port on the controller, you can remotely perform control actions (using CLI commands) from the controller's supported interface, such as an ATEN Viewer; Through a contact in port on the controller, you can configure and store up to 4 presets (actions) to the converter, which you can execute from the converter.

In cases of urgent needs for local control, you can enable the priority mode to disable remote control. LEDs are built in on the top panel to instant and convenient viewing of the status of digital input signals, priority control, and power.

With the capabilities of emulating USB keyboard signals, the VK211 is an ideal solution for providing RS-232 / Contact In interfaces for KVMs or any PC-based devices that do not have remote control functionalities. Its compact size and non-power source design are suitable for applications such as factory production lines, control rooms, or any facility that requires automation with control system and remote secure operation without installing any software.

1

Features

- Converts RS-232 to full-range USB keyboard signals for remote control of USB keyboard-based devices such as KVMs and PCs
- Recalls the stored key codes and allows storage of up to 4 preset actions triggered via Contact In signals
- Local USB console ports for keyboard / mouse connection
- On-panel priority control push button for local operators to manage remote access in case of emergencies
- LEDs indicate the status of digital input signals, priority control, and power at a glance
- No extra power required by utilizing the connection with USB devices
- Learn mode eases the setup procedure and configurations
- Compatible with ATEN KVMs

Getting Started Tasks

Follow the procedure below to help you get started with the VK211.

Step	Task	Detailed Information
1.	Install hardware to the VK211.	Installing the VK211, page 5
2.	Set up remote control actions on your chosen interface (e.g. ATEN Viewer or a keypad).	Chapter 3 Configuration.

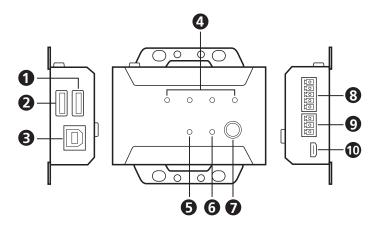
Chapter 2 Hardware Setup



- 1. Please review the safety information regarding the placement of this device in *Safety Instructions*, page 23.
- Do not power on the VK211 until all the necessary hardware is connected.

Components

This section provides an overview of the VK211's hardware components, their locations and functions.

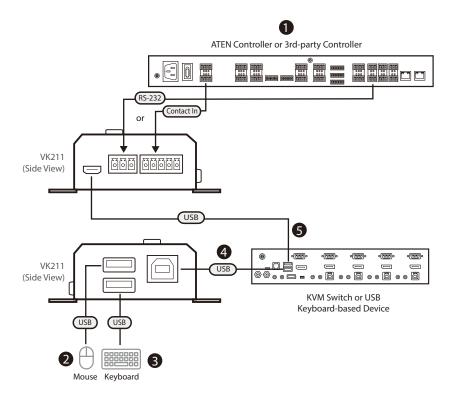


No.	Component	Description
1	USB type-A port (mouse)	Connects to a USB type-A mouse.
2	USB type-A port (keyboard)	Connects to a USB type-A keyboard.
3	USB Type-B port	Connects to a KVM switch or a USB keyboard based device (e.g. PC).
4	present LEDs	A preset LED blinks to indicate that the corresponding preset has been selected for configuration or triggered.
5	priority LED	Lights up to indicate that the control is restricted to the local operator.

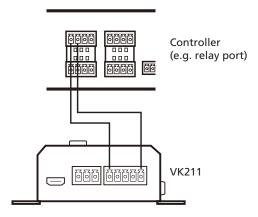
No.	Component	Description
6	power LED	Lights green when the VK211 receives power.
7	priority button	To enable the priority mode (which restricts control to local operator), press the priority button.
		 To enable learning mode, press and hold the priority button for 3 seconds.
8	contact in port	Connects to a contact device to trigger control signals.
9	RS-232 port	Connects to an RS-232 serial port to transmit control signals.
10	USB Micro-B port (power)	(Optional) Connects to a KVM switch or USB keyboard-based device as a power source. For more details, see <i>Installing the VK211</i> , page 5.

Installing the VK211

Follow the steps below to safely install the RS-232/Contact to USB Keyboard Converter.



- Connect an ATEN or 3rd-party controller to the converter (VK211) using one of the following methods:
 - To control using CLI commands, use the supplied 3-pin terminal block to connect the controller to the RS-232 port of the keyboard converter.
 - To control through the contact in port, which supports up to 4 preset controls, use the supplied 5-pin terminal block to connect the contact in port of the keyboard converter to the appropriate port of the selected control interface (e.g. relay port), as illustrated below. The diagram on the next page illustrates how to wire a single channel.



- Connect a USB mouse to the USB Type-A port for mouse on the keyboard converter.
- 3. Connect a USB keyboard to the USB Type-A port for keyboard on the keyboard converter.
- 4. Connect a KVM switch or a USB keyboard based device (e.g. PC) to the USB Type-B port on the keyboard converter.
- 5. (Optional) If the connected keyboard / mouse does not function properly, use one of the following methods to supply power:
 - Use the supplied USB Micro-B to USB Type-A cable to connect the keyboard converter's power port to any USB port on the connected device.
 - Connect the keyboard converter to a power source using a DC power adapter with the supplied USB Micro-B to USB Type-A cable.

Chapter 3 Configuration

Overview

This chapter provides recommended procedure and required information on setting up

Remote Control through Contact In

With the contact in port wired and connected to the controller (page 5), you can store up to 4 sequences of keystrokes (presets) and trigger the sequences from a keypad or a software control interface. To configure and store these sequences, use the priority button on the VK211 panel or remotely with CLI commands.

Configuring Presets with Learning Mode

To set up a preset with the priority button:

- 1. Select a preset.
 - a) Press and hold the **priority** button for about 3 seconds until preset 1 LED blinks to enable learning mode.
 - b) To configure preset 1, continue to the next step; to select another preset, press the **priority** button to cycle through the presets. A preset LED blinks to indicate that it is selected.
- 2. Perform the control action(s) on the local keyboard.

Note: The converter exits learning mode if no input is received within 5 seconds.

3. Press the **priority** button to finish learning. The preset LED dims.

Configuring Presets through CLI Commands

To set up a preset remotely with CLI commands, refer to the next section on how to create an RS-232 session (page 8) and the command syntax for configuring contact in ports (page 10).

Remote Control through RS-232

Through RS-232 serial connection between your ATEN or third-party controller (page 5), you can set up control actions using CLI commands. Refer to the user manual of your chosen controller for details on where to enter these commands.

Creating an RS-232 Session

On PuTTY or any terminal emulator to create an RS-232 session using the following settings:

• Baud rate: 19200

Data bit: 8Stop bit: 1Parity: None

Your terminal COM port

Command Notifications

The command syntax uses the following notifications:

Notation	Description
[]	Indicates optional items. Only type the information in the
	brackets, not the brackets themselves.
<argument></argument>	Indicates the name of the value that the user must provide.
	Only type the information in the angle brackets, not the
	brackets themselves.
1	Indicates two or more mutually exclusive choices in a
	command line. Only type one of the choices in the command
	line, not the symbol.
Ľ	Represents the action of pressing an Enter key.

Commands for Supported Actions

Simulating Keypresses

- Usage: Simulate key presses with specified duration and interval.
- Syntax:

keypress k <sequence> [type] [d duration] | [t interval] ∠

Keyword:

k: keycode

d: the duration for pressing and holding a key.

t: the time interval between two key presses. The maximum value is 500ms

Parameter:

 sequence: Enter one or more keycode IDs. To look up keycode IDs, see Supported Keycodes, page 14.

XX: Press the key that corresponds to the specified once.

XX,YY,ZZ: Press the keys that correspond to the specified keycodes once, in the specified order.

XX+YY+ZZ: Press the keys that correspond to the specified keycodes at the same time.

Note: You can simulate up to 30 key within one keypress command.

type:

allup: Release all the specified keys simultaneously

fdfu (First down first up): For key combinations, a key that is pressed first will also be released first.

fdlu (First down last up): For key combinations, a key that is pressed first will be released at last.

Note: These parameters are used for key combination only. The default setting is allup.

- duration: press and hold for the specified duration (ms).
- interval: time interval between each key (ms). The maximum is 500ms.

Acknowledge:

Command OK: Command is correct and the function is executed.

Command incorrect: Command and/or parameters are incorrect and not executed.

Example:

keypress k 01 ∠: Single pressing with keycode 01.

keypress k 01,A0,A5,81,84 ∠: Single pressing with keycodes 01, A0, A5, 81 and 84.

keypress k 01+A0+A5 ∠: Key combination (01, A0 and A5), and all key are released simultaneously.

keypress k 01+A0+A5 fdfu∠: Key combination (01, A0 and A5), and keycode 01 is released at first.

keypress k 01 d 1000 ∠: Keycode 01 is long-pressed for 1000 ms.

keypress t 300 ∠: Set the time interval between key pressing to 300 ms.

Configuring Contact In Ports

- Usage: Configure and save keypress actions to contact in ports.
- Syntax:

io p<sequence1> k <sequence2> [type] [d duration] | [t interval] ∠

Keyword:

p: port

k: keycode

d: duration

t: time interval

Parameter:

- Sequency1: number for contact in port, for example, 01, 02, 03, 04
- Sequence2:

XX: Press the key that corresponds to the specified once.

XX,YY,ZZ: Press the keys that correspond to the specified keycodes once, in the specified order.

XX+YY+ZZ: Press the keys that correspond to the specified keycodes at the same time.

Note: You can simulate up to 30 key within one keypress command.

type:

allup: Release all the specified keys simultaneously

fdfu (First down first up): For key combinations, a key that is pressed first will also be released first.

fdlu (First down last up): For key combinations, a key that is pressed first will be released at last.

Note: These parameters are used for key combination only.

- duration: press and hold for the specified duration (ms).
- interval: time interval between each key (ms). The maximum is 500ms.

Acknowledge:

Command OK: Command is correct and the function is executed.

Command incorrect: Unavailable command or parameters.

Example:

io p01 k 01 ∠: Save the action of pressing keycode 01 once to port 1.

io p01 k 01,A0,A5,81,84∠: Save the action of pressing keycodes 01, A0, A5, 81, and 84 once to port 1.

io p02 k 01+A0+A5∠: Save the action of pressing 01, A0, and A5 together, and then releasing them simultaneously to port 2.

io p01 k 01+A0+A5 fdfu∠: Save the action of pressing 01, A0, and A5 together, and releasing keycode 01 first to port 1.

io p01 k 01 d 1000 ∠: Save the action of pressing and holding 01 for 1000 ms to port 1.

io p01 t 300 ∠: Set the time interval between key pressing to 300 ms.

Echo

 Usage: To show keyboard inputs (performed at the local console) on the remote console through RS-232 serial communication.

Syntax:

echo <control>∠

Parameter:

control:

on: to enable the function

off: to disable the function. This is the default setting.

• Response:

Each response is shown as follows, where xx is a corresponding keycode of the pressed key:

keypress xx

keypress 00

Acknowledge:

Command OK: Command is correct and the function is executed.

Command incorrect: Unavailable command or parameters.

Example:

echo on ∠: enable responding console keyboard value

echo off∠: disable responding console keyboard value

Read

Usage: Check the connection of the USB keyboard device to the VK211.

Syntax:

read√

Response:

connection OK

connection Failed

Acknowledge:

Command OK: Command is correct and the function is executed.

Command incorrect: Unavailable command or parameters.

• Example:

read∠: Response device's information through RS-232.

Set

- Usage: Configure USB polling speed.
- Syntax:

set usbpolling= [level]∠

Parameter:

• level: 1(2ms), 2(4ms), 3(8ms),4(16ms), 5(32ms)

Note: The first digits are option numbers and the number in brackets are the polling speed values. The default setting is **3(8ms)**.

Response:

USB polling speed = 8 ms

Acknowledge:

Command OK: Command is correct and the function is executed.

Command incorrect: Unavailable command or parameters.

Example:

set usbpolling=1∠: Configure the USB polling speed to 2 ms.

set usbpolling=2∠: Configure the USB polling speed to 4 ms.

Reset

Usage: Restore systems settings to factory defaults.

• Syntax:

reset∠

Response:

System settings were successfully restored t default values.

• Acknowledge:

Command OK: Command is correct and the function is executed.

Command incorrect: Unavailable command or parameters.

• Example:

reset∠: Restore system settings to defaults.

Supported Keycodes

Usage ID (Hex)	Usage Name
00	Reserved (no event indicated)
01	Keyboard ErrorRollOver
02	Keyboard POSTFail
03	Keyboard ErrorUndefined
04	Keyboard a and A
05	Keyboard b and B
06	Keyboard c and C
07	Keyboard d and D
08	Keyboard e and E
09	Keyboard f and F
0A	Keyboard g and G
0B	Keyboard h and H
0C	Keyboard i and I
0D	Keyboard j and J
0E	Keyboard k and K
0F	Keyboard I and L
10	Keyboard m and M
11	Keyboard n and N
12	Keyboard o and O
13	Keyboard p and P
14	Keyboard q and Q
15	Keyboard r and R
16	Keyboard s and S
17	Keyboard t and T
18	Keyboard u and U
19	Keyboard v and V
1A	Keyboard w and W
1B	Keyboard x and X
1C	Keyboard y and Y

Usage ID (Hex)	Usage Name
1D	Keyboard z and Z
1E	Keyboard 1 and !
1F	Keyboard 2 and @
20	Keyboard 3 and #
21	Keyboard 4 and \$
22	Keyboard 5 and %
23	Keyboard 6 and ^
24	Keyboard 7 and &
25	Keyboard 8 and *
26	Keyboard 9 and (
27	Keyboard 0 and)
28	Keyboard Return (ENTER)
29	Keyboard ESCAPE
2A	Keyboard DELETE (Backspace)
2B	Keyboard Tab
2C	Keyboard Spacebar
2D	Keyboard - and (underscore)
2E	Keyboard = and +
2F	Keyboard [and {
30	Keyboard] and }
31	Keyboard \ and
32	Keyboard Non-US # and ~
33	Keyboard ; and :
34	Keyboard ' and "
35	Keyboard Grave Accent and Tilde
36	Keyboard, and <
37	Keyboard . and >
38	Keyboard / and ?
39	Keyboard Caps Lock
3A	Keyboard F1

Usage ID (Hex)	Usage Name
3B	Keyboard F2
3C	Keyboard F3
3D	Keyboard F4
3E	Keyboard F5
3F	Keyboard F6
40	Keyboard F7
41	Keyboard F8
42	Keyboard F9
43	Keyboard F10
44	Keyboard F11
45	Keyboard F12
46	Keyboard PrintScreen
47	Keyboard Scroll Lock
48	Keyboard Pause
49	Keyboard Insert
4A	Keyboard Home
4B	Keyboard PageUp
4C	Keyboard Delete Forward
4D	Keyboard End
4E	Keyboard PageDown
4F	Keyboard RightArrow
50	Keyboard LeftArrow
51	Keyboard DownArrow
52	Keyboard UpArrow
53	Keypad Num Lock and Clear
54	Keypad /
55	Keypad *
56	Keypad -
57	Keypad +
58	Keypad ENTER

Usage ID (Hex)	Usage Name
59	Keypad 1 and End
5A	Keypad 2 and Down Arrow
5B	Keypad 3 and PageDn
5C	Keypad 4 and Left Arrow
5D	Keypad 5
5E	Keypad 6 and Right Arrow
5F	Keypad 7 and Home
60	Keypad 8 and Up Arrow
61	Keypad 9 and PageUp
62	Keypad 0 and Insert
63	Keypad . and Delete
64	Keyboard Non-US \ and
65	Keyboard Application
E0	Keyboard LeftControl
E1	Keyboard LeftShift
E2	Keyboard LeftAlt
E3	Keyboard Left GUI
E4	Keyboard RightControl
E5	Keyboard RightShift
E6	Keyboard RightAlt
E7	Keyboard Right GUI

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Chapter 4 Control and Maintenance

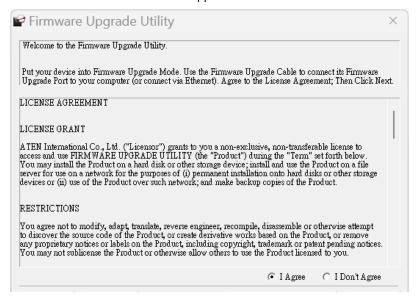
Enabling / Disabling Remote Control

Remote control (through RS-232 or contact in) is enabled by default. To disable remote control, press the **priority** button on the keyboard converter. The **priority** LED lights orange to indicate that the control is restricted to the local operator. To allow remote control, press the priority button again. The priority button dims.

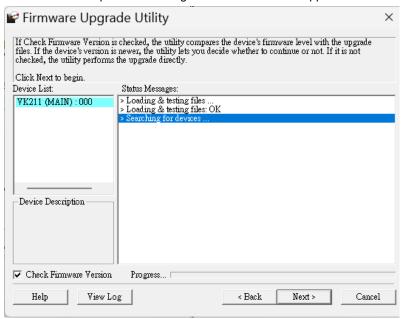
Firmware Upgrade

To upgrade the firmware of a VK211:

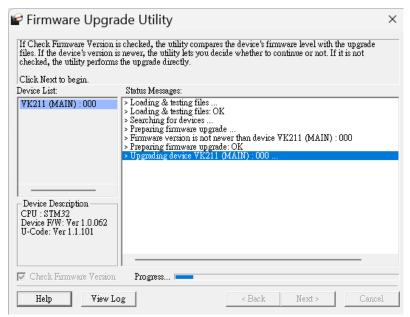
- 1. Download the firmware from the product page.
- Press and hold the priority button and then power on the VK211 by connecting the unit to the PC with a USB type-B to USB type-A cable. All preset LEDs and the priority LED blink.
- 3. Execute the installer. This screen appears.



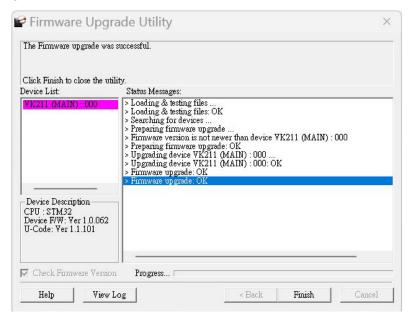
4. Click **Next** to accept the license agreement. This screen appears.



5. Click **Next** to proceed. The upgrade starts.



6. The upgrade is complete when the system indicates "Firmware upgrade: OK" on the screen.



7. Click Finish.

Note: In any case if the upgrade was unsuccessful, make sure to perform this procedure again from step 2 (powering on the unit by replugging the USB cable).

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Appendix

Safety Instructions

General

- This product is for indoor use only.
- Read all of these instructions. Save them for future reference.
- Follow all warnings and instructions marked on the device.
- Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- Do not use the device near water.
- Do not place the device near, or over, radiators or heat registers.
- The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- The device should never be placed on a soft surface (bed, sofa, rug, etc.) as
 this will block its ventilation openings. Likewise, the device should not be
 placed in a built in enclosure unless adequate ventilation has been provided.
- Never spill liquid of any kind on the device.
- Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- To prevent damage to your installation it is important that all devices are properly grounded.
- Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.

- Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
 - The power cord or plug has become damaged or frayed.
 - Liquid has been spilled into the device.
 - The device has been exposed to rain or water.
 - The device has been dropped, or the cabinet has been damaged.
 - The device exhibits a distinct change in performance, indicating a need for service.
 - The device does not operate normally when the operating instructions are followed.
- Only adjust those controls that are covered in the operating instructions.
 Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.

Technical Support

International

- For online technical support including troubleshooting, documentation, and software updates: http://support.aten.com
- For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988
	1-949-428-1111

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Suppor	t	1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- Product model number, serial number, and date of purchase
- Your computer configuration, including operating system, revision level, expansion cards, and software
- Any error messages displayed at the time the error occurred
- The sequence of operations that led up to the error
- Any other information you feel may be of help

Specifications

Connectors		
Console Ports	2 x USB Type-A Female	
Device Ports	1 x USB Type-B Female	
RS-232	1 x Bi-directional RS-232 port (3-pin terminal connector)	
	◆ Baud rate: 19200	
	◆ Data bit: 8	
	◆ Stop bit: 1	
	◆ Parity: None	
Contact In	4 x Contact Closure Input Ports (1 x 5-pole terminal block)	
Power (Optional)	1 x USB Micro B Female	
D: " D "		

Priority Button

- 1 x Pushbutton
- Toggle switch for remote control
- ◆ Hold and press for 3 seconds to enter learning mode

LED	
Contact In	4 (green)
Power	1 (green)
Priority	1 (orange)

Power Consumption

DC5V:0.69W:7BTU/h

Power Rating

5VDC

Environmental		
Operating Temperature	0 - 50°C	
Storage Temperature	-20 - 60°C	
Humidity	0 x 80% RH, Non-Condensing	
Physical		
Housing	Metal	
Weight	0.15 kg (0.33 lb)	
Dimensions (L x W x H)	8.20 x 7.30 x 2.62 cm (3.23 x 2.87 x 1.03 in.)	

ATEN Standard Warranty Policy

Limited Hardware Warranty

ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the LCD panel of ATEN LCD KVM switches. Select products are warranted for an additional year (see *A+Warranty* for further details). Cables and accessories are not covered by the Standard Warranty.

What is covered by the Limited Hardware Warranty

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is detective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website: http://www.aten.com/global/en/legal/policies/warranty-policy/

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