



VK0100 / VK0200

Control Pad
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

무선 제품용 / A급 기기 (인공적으로 방출되는 전자기기)
 이 기기는 업무용 (A급) 전자파 적합기기로서 판매자 또는 사용자는 이
 점을 주의하시기 바랍니다. 가전 적합 지역에서 사용하는 것을 목적으로
 합니다.

Industry Canada Statement

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

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

RoHS

This product is RoHS compliant.

User Information

Online Registration

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

International	http://eservice.aten.com
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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.

VK0100

- ◆ 1 VK0100 8-Button Control Pad
- ◆ 1 button pack
- ◆ 4 2-pin terminal blocks
- ◆ 2 3-pin terminal blocks
- ◆ 1 faceplate
- ◆ 1 user instructions

VK0200

- ◆ 1 VK0200 12-Button Control Pad
- ◆ 1 button pack
- ◆ 4 2-pin terminal blocks
- ◆ 2 3-pin terminal blocks
- ◆ 1 faceplate
- ◆ 1 user instructions

About this Manual

This user manual provides information on ATEN Control Pads. It covers all aspects of installation, device configuration, and operation. ATEN Control Pads include the following models:

Model Number	Description
VK0100	8-Button Control Pad (US, 1 Gang)
VK0200	12-Button Control Pad (EU, 2 Gang)

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 Indicates text that you should key in.

[] 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 consecutive selecting options (such as on a menu or dialog box). For example, Start > Run means to open the *Start* menu, and then select *Run*.



Indicates critical information.

Terminology

Refer to the table below for the definition of frequently used terms.

Terminology	Definition
controller	A controller refers to any model of ATEN Control Box Gen. 2 and Control Pad.
Viewer	A Viewer is a software control interface that system operators use to control and operate devices managed by ATEN control system. The Viewer is fully configurable and customizable using ATEN Configurator. For example: 
Project	A project is a configuration file, generated using ATEN Configurator to specify settings of an ATEN Control System, including one or multiple controllers, managed devices, and control interfaces.

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Chapter 1

Introduction

The ATEN Control Pad is a fully customizable solution that integrates a controller with a keypad in one device. Designed for small to medium-sized meeting rooms or classrooms, the ATEN Control Pad provides a ready-to-use solution that enables device connectivity, customizable keypad functions, and flexible key layout configuration—all through the intuitive ATEN Configurator software.

- ♦ *Features*
- ♦ *Compatible Products*
- ♦ *Application*

Features

- ♦ Supports various interface connections:
 - ♦ 2 x RS-232 ports
 - ♦ 2 x relay channels
 - ♦ 1 x digital input channel
 - ♦ 1 x Ethernet port
- ♦ Available in two models:
 - ♦ 1-gang US-type (VK0100)
 - ♦ 2-gang EU-type and MK-type (VK0200)
- ♦ Fully customizable:
 - ♦ VK0100: 14 layout combinations using 4 to 8 buttons
 - ♦ VK0200: 125 layout combinations using 6 to 12 buttons
- ♦ Available in black or white color
- ♦ Web Viewer – integrated with 3rd-party systems or any web-based console for easier room equipment management
- ♦ Supports native KNX IP for building management systems
- ♦ TCP, UDP, Telnet, HTTP, HTTPS, WebSocket, ONVIF, and PJLink compliant

- ◆ 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
- ◆ Supports project file backup¹
- ◆ Web GUI for easy system configuration
- ◆ Supports SSH communication for data monitoring²
- ◆ LED indication of connection and hardware status
- ◆ Dual-color LEDs for clear indication in dark environments
- ◆ Dual power supplies – Power over Ethernet (PoE) and DC 5V (optional)
- ◆ Customized button engraving service
- ◆ Allows for remote control via mobile device³
- ◆ Flexible installation is made easier with the keypad tabletop kit (VK0200TTK), allowing for device mounting on the table or to the wall
- ◆ Supports centralized control and management by ATEN Unizon™

Note:

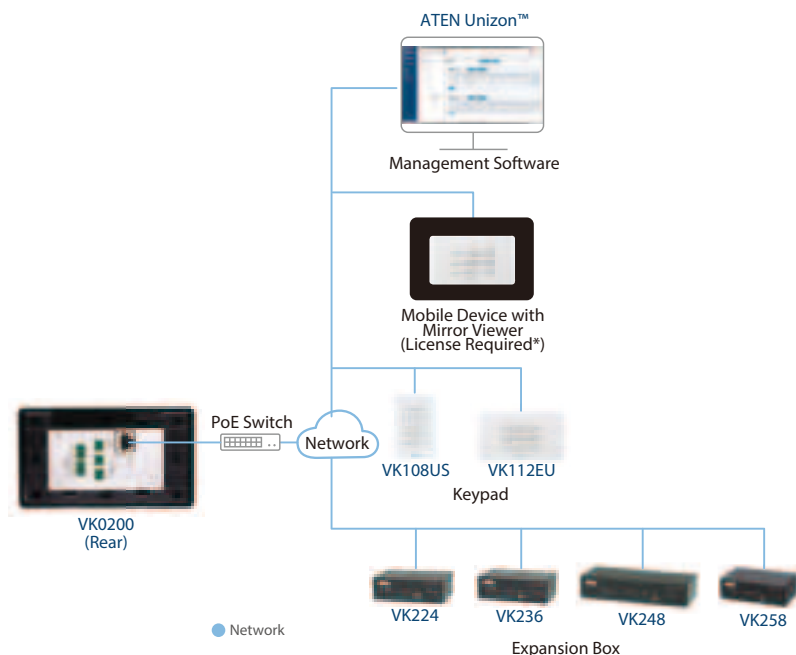
1. One ATEN Control Pad can store one project file.
 2. With SSH compatibility, a device is capable of monitoring data transmission and reception.
 3. A license is required for each mobile device for remote control. For information about maximum number of licenses and license management for Control Pads, see *Licenses for Mobile Control*, page 25; for more information about purchasing licenses contact your local sales representative.
-

Compatible Products

Maximize the efficiency and functionality of your Control System with a wide range of ATEN products, such as ATEN Unizon for centralized management, professional audio products for audio processing. For more information, visit the product page of your specific Control Pad or contact your local ATEN dealer.

Application

Shown below is a 2-gang ATEN Keypad, connected to an ATEN Control System, remotely managed via ATEN Unizon.



Note: A license is required for each mobile license for remote control.
Please contact your local sales representative for more information.

Chapter 2

Installation and Wiring

This section provides information about:

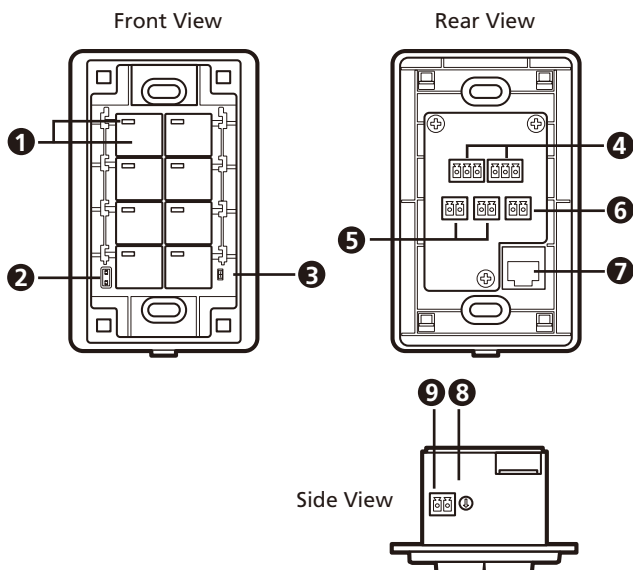
- ♦ *Panel Components*
- ♦ *LED Indications*
- ♦ *Installing the Control Pads*
- ♦ *Wiring Information*



1. Important safety information regarding the placement of this device is provided on *Safety Instructions*, page 34. Please review it before proceeding.
2. Make sure that the power to all devices connected to the installation are turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.

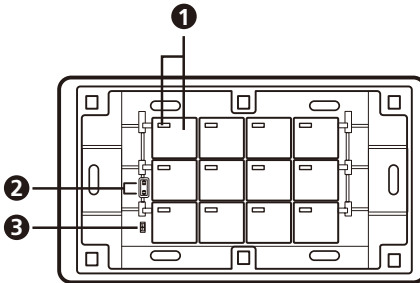
Panel Components

VK0100

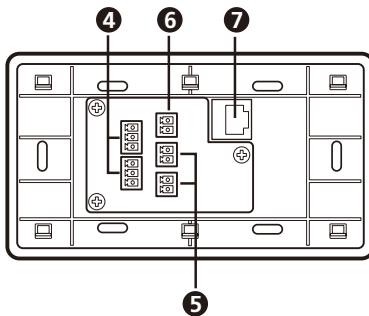


VK0200

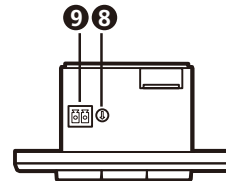
Front View



Rear View



Bottom View



No.	Component	Description
1	buttons and button LEDs	Indicate the status of the Control Pad and if the function on each button, e.g. lighting or projector, is on or off. For detailed information about device/ function status under different LED activities, see <i>LED Indications</i> , page 6.
2	system LEDs	Contains a LAN and a link LED to indicate network connection and data transmission status: ♦ LAN LED lights green to indicate that the Control Pad is connected to network. ♦ Link LED lights green to indicate that the Control Pad is actively transmitting and receiving data.

No.	Component	Description
3	reset button	♦ To clear all the configurations except the network settings, press and hold the reset button until all button LEDs blink once (about 8 seconds). ♦ To reset the network settings, press the reset button once.
4	RS-232 serial ports	Connect up to two RS-232 serial devices.
5	relay channels	Connect up to two relay devices. Relay contacts are normally open, isolated with a contact rating of 24 V DC, 1 A max.
6	digital input Port	Connect to one digital input device that supports programmable input (1 ~ 5 V DC) or dry contact (pull-up 2k ohms to 5 V DC).
7	Ethernet port	Connects to an Ethernet cable to provide power and access to the network.
8	control pad ID switch	Sets an ID for the Control Pad.
9	DC power port	Connects to a 5 V DC power adapter.

LED Indications

Refer to the table below for the status descriptions of a Control Pad indicated by button LEDs.

Button LED Status	LED Activity	Control Pad Status
a button LED	lights orange	The Control Pad is powered on and the button is currently off.
a button LED	lights white	The Control Pad is powered on and the button is currently on.
a button LED	blinks orange and white repeatedly	The function assigned to the button is being executed.
all button LEDs	blink orange and white once	The Control Pad is restoring its default settings.
all button LEDs	blink orange and white repeatedly	The firmware of the Control Pad is being upgraded.

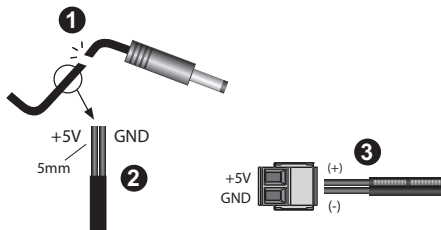
Installing the Control Pads

1. Prepare the installation site.
 - a) Choose a location where cables are free of interference. You can install the Control Pad on walls, desks, and podiums.
 - b) Prepare a recession on the chosen location to accommodate the Control Pad. You can install the Control Pad directly on the chosen location or through a wall box. For recommended cutout dimensions, see *CAD and Panel Cutout Diagrams*, page 40.
2. Connect the Control Pad to various devices, for integration and control, refer to the corresponding interface for the wiring information of each:
 - ♦ *Wiring Information*, page 12
 - ♦ *Relay Connections*, page 13
 - ♦ *Digital Input Device*, page 14

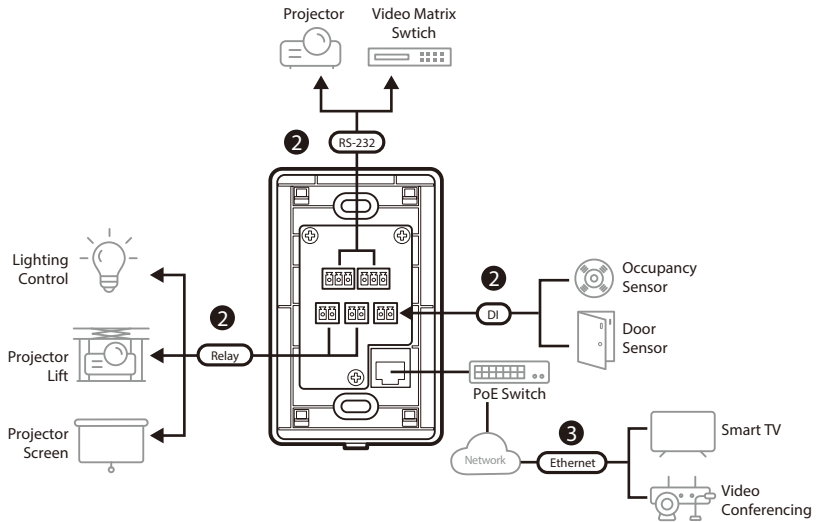
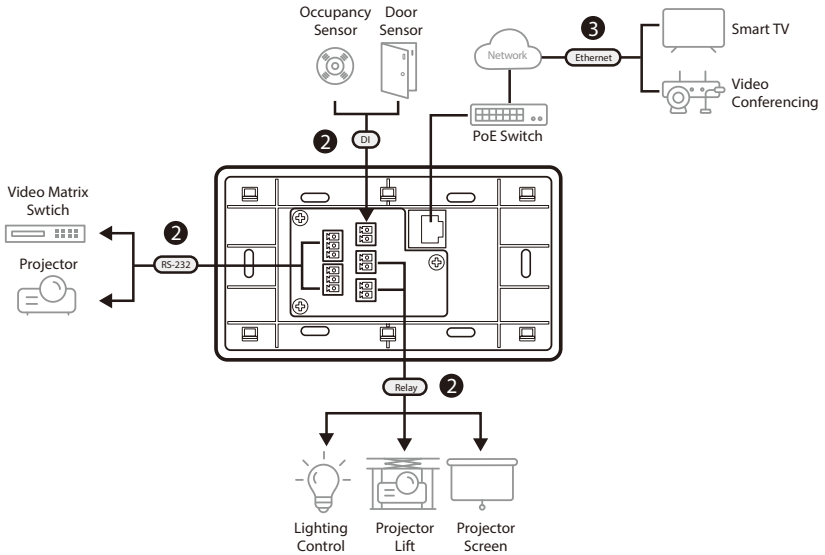
Note: To expand connection ports on the Control Pad, install ATEN Expansion Boxes.

3. To use PoE, connect the Control Pad to a PoE switch via an Ethernet cable. For details, see *Ethernet*, page 15.

Note: If you do not have a power sourcing equipment for PoE, contact your local sales representative to purchase a power adapter and then follow the steps below to prepare the power cord.



- (1) Cut the connector end of the power adapter.
 - (2) Strip 5 mm(0.5 cm) off the insulation cover of the power adapter cable to expose the +5V wire and the grounding wire.
 - (3) Insert the expose +5V wire and the grounding wire tightly into the provided 2-pin terminal block connector. Use a voltmeter to determine the polarity of an exposed wire.
-

VK0100**VK0200**

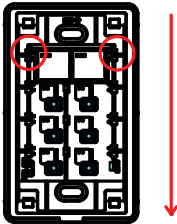
4. Use the ID Switch to assign an ID to the Control Pad.

Note: It is possible to install more than 16 controllers under the same subnet. In which case, the 17th controller and the ones added after that will each be sharing its ID with another controller. If you have any ATEN Expansion Box and/or Keypad connected to controllers using shared IDs, reconfigure the connection mode. For details, see *Controller Properties*, page 112.

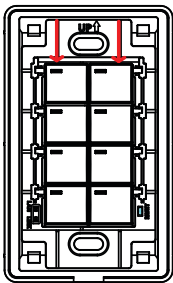
5. Power on all the devices. The button LEDs light orange.
6. Assemble the button caps onto the Control Pad.
 - a) Assemble button caps of the same row with each other. Put the button with two latches to the far right.



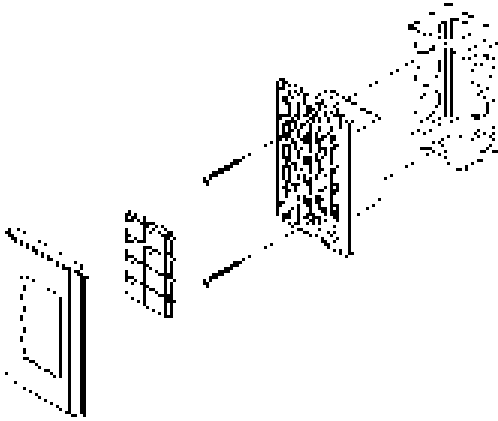
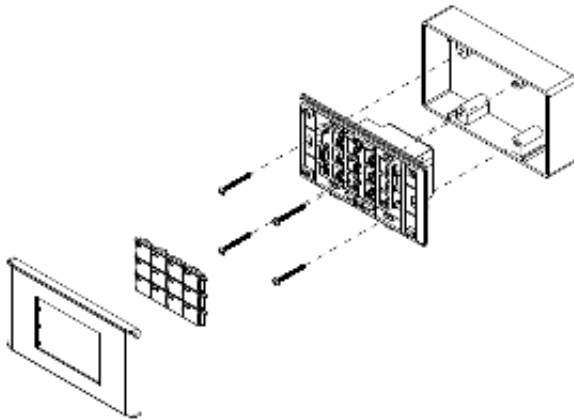
- b) From the top row, attach each row of button caps to the Control Pad by pressing on the latches.



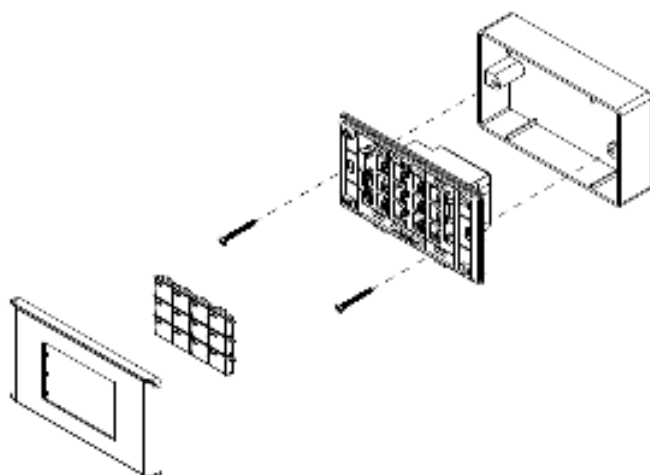
Caution: When removing button caps, place your fingers on the top of button caps and then press downwards, as illustrated below. Pressing upwards from the bottom may cause damages to the button caps.



7. Mount the Control Pad to the chosen location with or without a wall box.
 - a) Secure the Control Pad to the chosen location with self-prepared screws.
 - b) Install the supplied faceplate to the Control Pad.

VK0100**VK0200 (for EU type)**

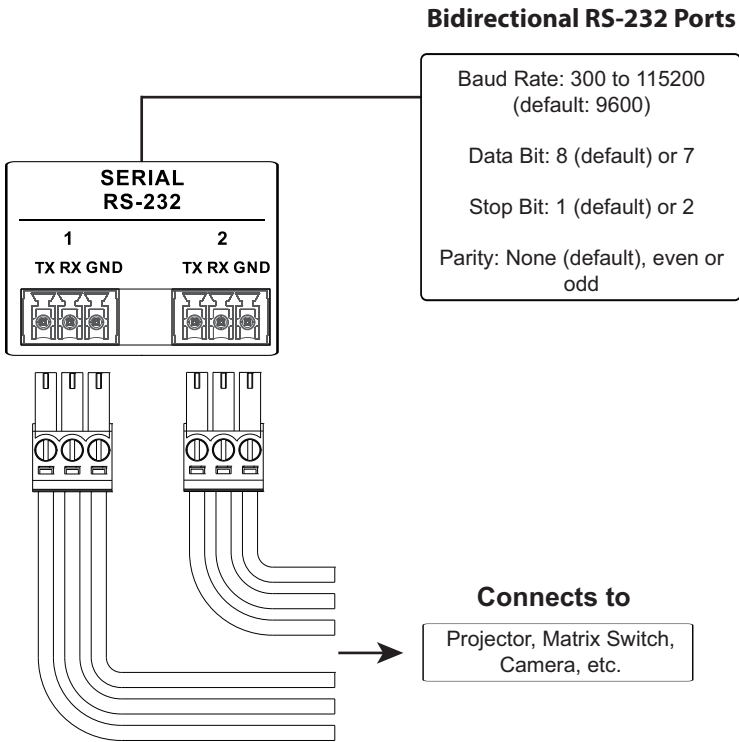
VK0200 (for MK type)



Wiring Information

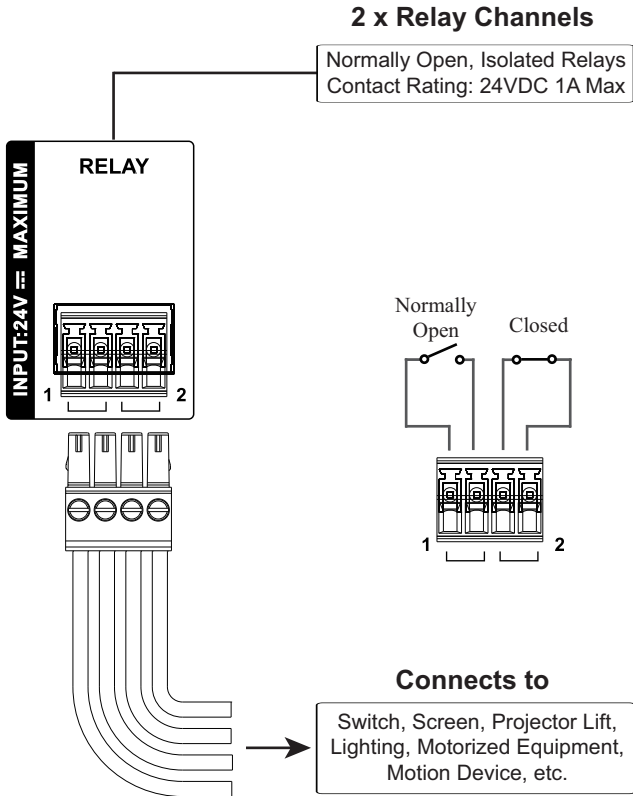
RS-232 Serial Connection

The two bidirectional RS-232 ports on the Control Pad provide serial control of hardware devices (projectors, matrix switches, etc.) and receive status messages from the connected devices. For bidirectional RS-232 control, the transmit, receive, and ground pins must be wired on both the Control Pad and hardware device. Each hardware device requires different wiring. Please consult each hardware device's manual for details.



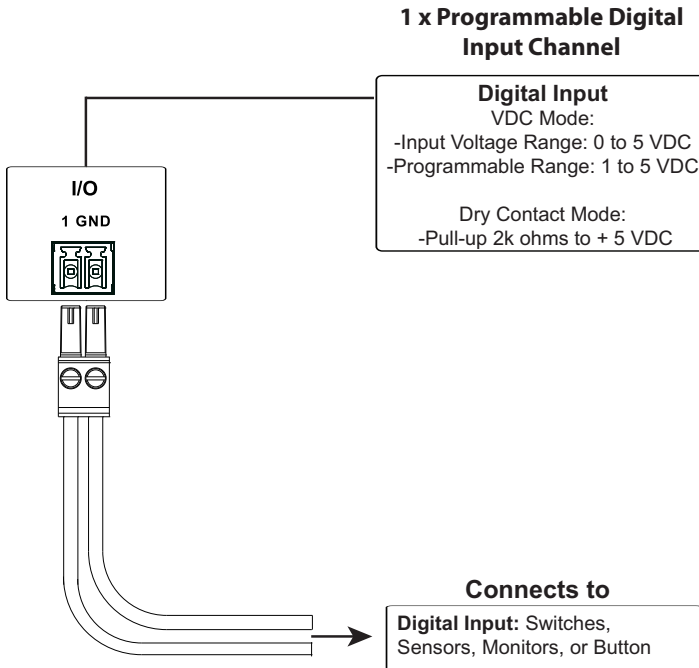
Relay Connections

These 2 relay channels provide connections to control hardware devices such as electric screens, projector lifts and other motorized equipment. Each relay is normally open by default.



Digital Input Device

The digital input port on the Control Pad can be used to install a digital input device such as a switch or a sensor. The digital input channel can be configured to the VDC mode or the Dry Contact mode.



Digital Input (Dry Contact):

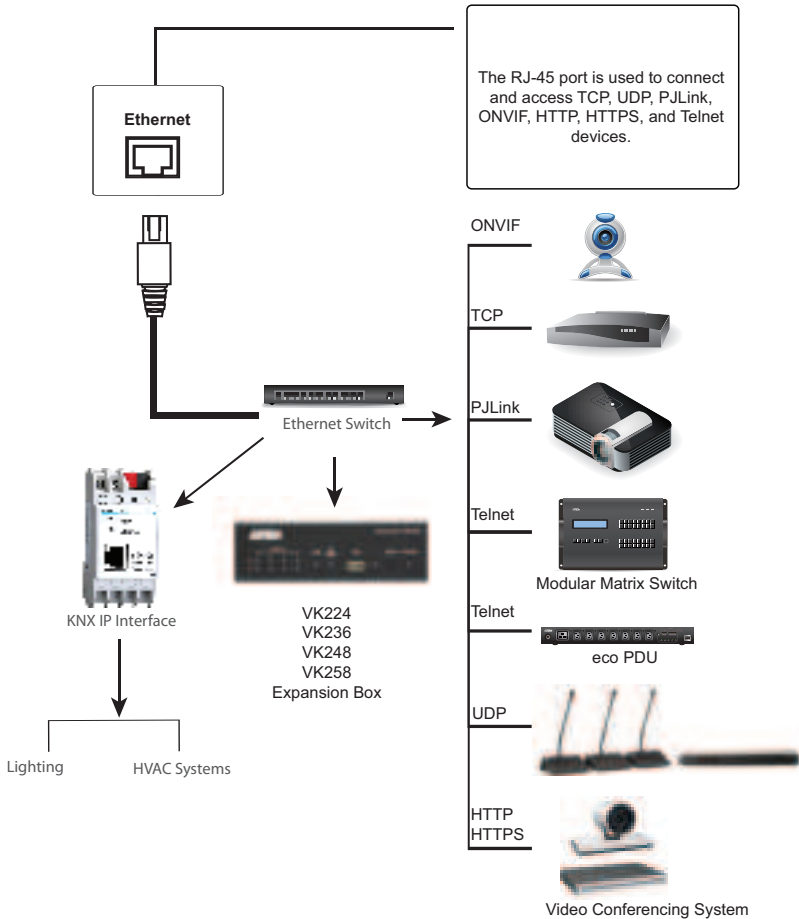
Digital inputs are hardware devices (switches, sensors, monitors) with two circuit signals – open and closed. These two signals provide indicators from sensors or switches of an event. An event can be the on/off power, dry contact, sensor or switch status from a device. This information is used to trigger events and functions through the Control Pad.

Digital Input (VDC):

Digital input 5VDC hardware devices (temperature, current and monitor sensors) provide voltage signals between 1 and 5. A digital input port detects if a voltage is above/below a specific threshold (1 to 5). If the voltage coming from a hardware device is higher than the set value, the Control Pad will detect the digital input as high. If the voltage coming from a hardware device is lower than the set value, the Control Pad will detect the digital input as low. This information is used to trigger events and functions through the Control Pad.

Ethernet

The RJ-45 port provides an Ethernet connection for accessing the web console (page 19), controlling up to 8 IP devices, and remote control by the Control System app within the same subnetwork.



Chapter 3

Configuring a Profile

ATEN Configurator — VK6000

Download the ATEN Configurator software — VK6000 — from its product web page, and install it on a PC.

Adding the Control Pad

1. After installing the ATEN Configurator, the main page appears. start by clicking the **Project** tab at the top.



2. On the **Project** tab, provide the information of the Control Pad. Then click **Start Project**.
3. In the **Device** tab, add all devices to be managed by the Control Pad into the *Device Configuration* list.

Once all devices are successfully added and configured, users can start designing dedicated control interfaces — **Viewers** — on the Configurator to be uploaded into the Control Pad for easy remote control to all devices via ATEN Keypads, Touch Panel, or Control System app with mobile devices.

For detailed information about ATEN Configurator, as well as Control System mobile app, refer to the *Control System Software Guide*.

Chapter 4

Web-based Configuration

The ATEN Control Pad can be configured remotely via its web interface. This section provides explanation about functions available on the web interface, as follows:

- ♦ *IP Address of the Control Pad*
- ♦ *Determining the IP Address of the Control Pad*, page 18
- ♦ *Login*
- ♦ *Dashboard*
- ♦ *System Settings*
 - ♦ *General*
 - ♦ *Licenses for Mobile Control*
 - ♦ *Storage*
 - ♦ *System Logs*
 - ♦ *Monitor*
 - ♦ *Network*
 - ♦ *Access*
 - ♦ *Connections*
 - ♦ *Schedule*
 - ♦ *Security*

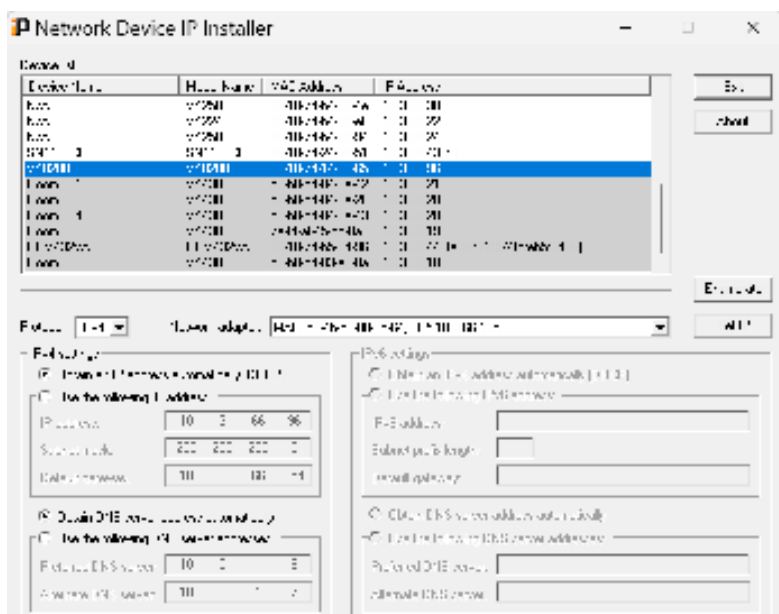
IP Address of the Control Pad

When connected to a **DHCP network**, the Control Pad is automatically assigned with an IP address upon startup. To determine the IP address of the Control Pad, use ATEN IP Installer to scan for the device. For a detailed procedure, see *Determining the IP Address of the Control Pad*, page 18. When no dynamic IP address is assigned to the Control Pad within 30 seconds after startup, the default IP address **192.168.0.60** is applied.

Determining the IP Address of the Control Pad

To determine the IP address of a Control Pad, follow the steps below to install and use an utility software, IP Installer.

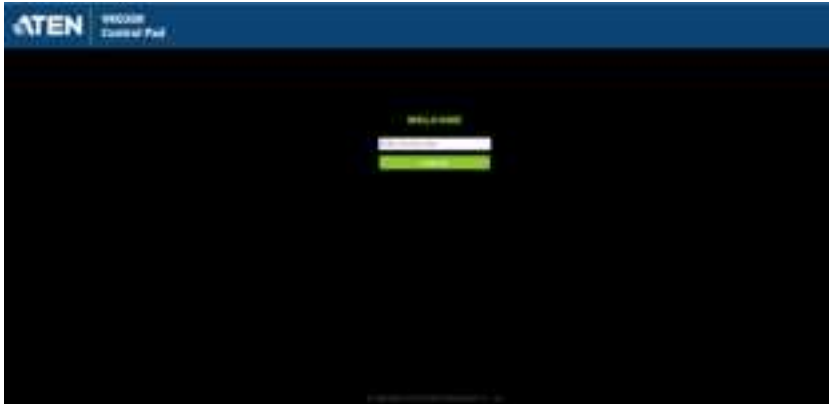
1. Using a Windows PC, go to the Control's Pad product web page.
2. Go to the **Support and Downloads** tab.
3. From the Software & Drivers table, download the **IP Installer** zip file. Then extract and execute **IPInstaller.exe**. A window similar to the one below appears.



4. Make sure the proper network adapter is selected and click **Enumerate** to search for and display your Control Pad within the *Device List*.

Login

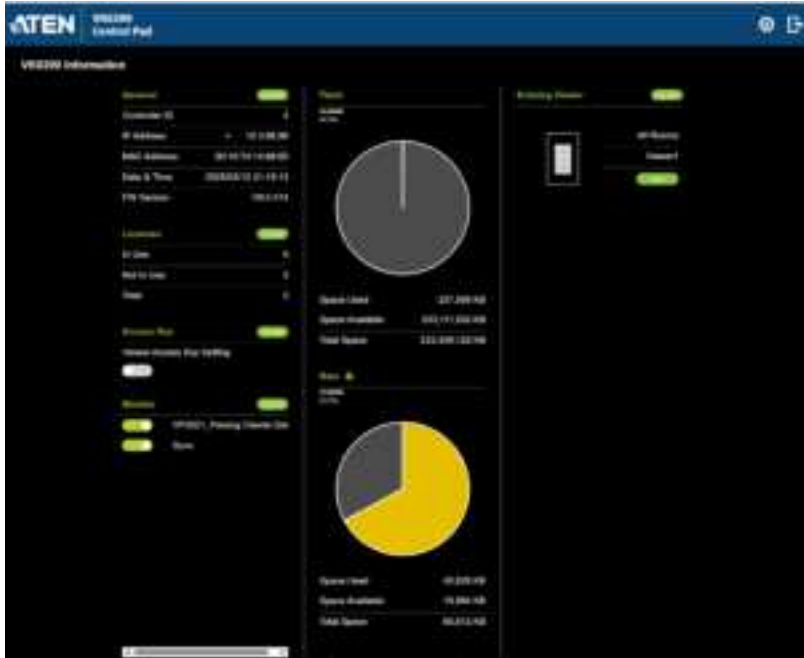
To access the web interface, type the IP address of the Control Pad into the address bar of any browser. If a Security Alert dialog box appears, accept the certificate — it can be trusted. The Welcome screen appears:



- ◆ The default access key is: **password**
- ◆ Access key requirements:
 - ◆ can be of 30 characters or fewer in length
 - ◆ supports the following special characters: hashtag (#), at (@), dot (.), and underscore (_)

Dashboard

The *Dashboard* appears when you successfully log in to the Control Pad. The Dashboard gives a quick view of the current settings and provides a link (Edit button) to each configuration page.



- ♦ The top bar provides two options:



Click to enter the **Settings** page.



Click to log out of the web console.

- ◆ Other buttons and toggle controls include:

Button / Toggle Control	Function
	Click this button to access the configuration page.
	◆ Click this button to access the Viewer in a separate web page for remote control. ◆ You can also use the URL to remotely access a Viewer from any device with web access or for third-party integration.
Viewer Access Key Setting	Enable this setting to request for the access key when uploading projects and Viewers to the Control Pad or when downloading Viewers to mobile devices.
Monitor toggle buttons	Monitors configured for Flags and digital input devices are listed here. Click on the toggle buttons to enable or disable the monitors.

System Settings

The Settings view contains tabs consisting of different configurations of the Control Pad.



The page is divided into two parts:

- ♦ **Interactive Display Panel:** configures the options
- ♦ **Top Bar:** provides icons to exit the settings page and log out of the web session.
- ♦ To access the settings page, log in in the Control Pad web interface, and click .
- ♦ To return to Dashboard, click .

General

The General tab contains network information and the time and firmware upgrade settings.



Setting	Descriptions
Controller Info	Provides network and identification information pertaining to the Control Pad. ♦ Device Name: Sets the device name. ♦ Controller ID: Displays the controller ID # set on the rear of the unit. ♦ Control Mode: Indicates the current configuration mode for the Control Pad. Note that when the control mode changes from command-line to GUI mode, I/O configurations made through CLI will be lost. ♦ GUI mode: When the Control Pad is in GUI mode, it means that the last configuration was made by uploading a Viewer to the Control Pad or by resetting the Control Pad. ♦ Command-line mode: When the Control Pad is in command-line mode, it means that the last configuration was made via command line interface. ♦ LAN IP Address: Provides the IP address of the Control Pad. ♦ MAC Address: Provides the MAC address of the Control Pad.

Setting	Descriptions
Date & Time	♦ Automatically ♦ Time Zone: Select a time zone for the Control Pad. Choose the city that most closely corresponds to where it is located. NTP Server Settings Assign an NTP server for the Control Pad to synchronizes its clock. If the Control Pad has access to the Internet, configure the Preferred NTP Server and Alternate NTP Server settings. If the Control Pad is installed in a closed network, configure the Preferred Customer Server IP and Alternate Customer Server IP settings. ♦ Preferred NTP Server: Select an NTP server to provide synchronization services to the Control Pad . Make sure to use an NTP server that is located close to where the Control Pad is installed to minimize propagation delays. ♦ Alternate NTP Server: Select an alternate NTP server to which the Control Pad connects when it is unable to connect to the preferred NTP server. ♦ Preferred Customer Server IP: Select this option to use a private NTP server if the Control Pad is installed in a closed network. ♦ Alternate Customer Server IP: Select this option to set up a substitute server if the Control Pad is unable to connect to the preferred server. ♦ Adjust Time: Sets the interval at which the Control Pad synchronizes its clock with the assigned NTP server. ♦ Sync: Click this button to save your configuration and start synchronizing its clock with the assigned NTP server. ♦ Manually: Use the drop-down lists to set the Control Pad time zone, date, and time.
Firmware	♦ Displays the current firmware version of the Control Pad and option to upgrade/downgrade the firmware. ♦ To upgrade/downgrade the firmware, click Update. Important: Since the file system of the Control Pad uses EXT2 for firmware version 3.0 onward instead of FAT32 for prior versions, downgrading the firmware from version 3.0 (or from any later version) to a version prior to 3.0 will result in file formatting. In this case, make sure to back up your project file before the downgrade. ♦ Select Check FW Version for the Control Pad to check if the device firmware is a later version than the browsed firmware file, and display the result.

Licenses for Mobile Control

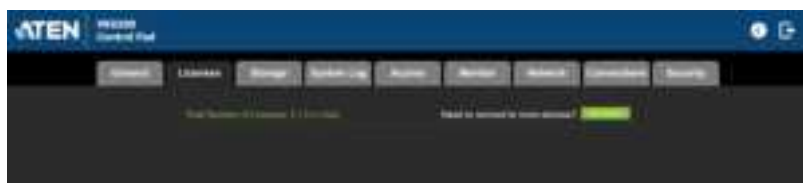
A license is a software permit that an ATEN Control Pad grants to a mobile device for remote control. If you have three licenses for a Control Pad, you can have three mobile devices remotely operate the Control Pad at the same time.

You can use the Licenses tab to:

- ◆ Find out the total number of licenses, the number of licenses that are available, and those that are in use
- ◆ Upload licenses to the ATEN controller
- ◆ View license information

Note:

- ◆ When using an ATEN Touch Panel for remote control, make sure to upgrade the Control Pad to version 2.8 or later, which recognizes the Touch Panel as an ATEN device and will not require a license.
- ◆ A Control Pad can take up to 10 licenses at the same time. To purchase one or more licenses, contact your local sales representative for more information.



Setting	Description
Licenses	◆ In Use: displays the number of licenses being used by mobile devices. ◆ Not in Use: displays the number of licenses available for use. ◆ Total shows the number of licenses purchased for the Control Pad.
Update License	Clicking Add License opens the <i>Add License</i> window to import new licenses to the Control Pad.
Remove	When a device is accessing the Control Pad, you can click the Remove button to disconnect the session.

Storage

The Storage tab displays the following information:

Setting	Descriptions
Flash	This section shows the total amount of flash memory on the Control Pad, as well as the space used and the space available for storing Viewers.
RAM	This section shows the total space of working memory on the Control Pad, as well as the space used and the space available for processing.
Existing Viewer	This section lists all the Viewers that are stored on the Control Pad with their name and the assigned room(s). Click Remove to delete a single Viewer or Remove All to delete all Viewers from the Control Pad. Click View to access the Viewer in a separate web page for remote control. For more information, see <i>Access Viewers in Web URL for Remote Control</i> , page 26.

Access Viewers in Web URL for Remote Control

You can remotely operate Control Pad-managed environments on any computer or mobile device by accessing Viewers from the Control Pad's web interface. This renders Viewers in separate web pages, allowing you to save these pages to ATEN Unizon or any third-party platform that support web page embed for convenient access and control.

1. Log in the Control Pad's web interface with a valid access key. The Dashboard page appears.



- From the Existing Viewer section, click **View**. The Viewer appears in a separate web page. For example:



Click on the page to perform control actions.

System Logs

Use the System Log tab to obtain system logs. Click **Export** to download a log file.



Access

The Access tab enables you to:

- ◆ Configure the access key (password) of the Control Pad
- ◆ Set up an activation key to restrict access to the Control System for the specified period of time.



Setting	Description
Access Key	The access key is the password that is required to do the following: - Log in the Control Pad's web interface. - Upload projects and/or Viewers from Configurator to the Control Pad. - Download Viewers from the Control Pad to mobile devices using ATEN Control System App (page 315). The following settings are available: Current Access Key, New Access Key, Confirm Access Key: Use these three fields to set or change the access key. The default access key is password. IMPORTANT: You will be prompted to modify the access key before you can continue with accessing the web GUI or uploading project files. Note: A valid password should contain 30 or fewer alphanumeric characters, and supports special characters, including hashtag (#), at (@), dot (.), and underscore (_). Viewer Access Key: Select this option to request for the access key when uploading projects and Viewers to the Control Pad or when downloading Viewers to mobile devices. Once enabled, you can also configure this setting from the Dashboard tab.

Setting	Description
Activation Key	The activation key is a string of letters and numbers used to assign a validity period of accessing the ATEN Control System. To set up a validity period for accessing the ATEN Control System: 1. Select Your access to ATEN Control System will expire in and type the number of days. 2. Type an activation key. Follow the guidelines below when creating your activation key: ♦ Max number of characters: 32 ♦ Allowed characters: uppercase and lowercase letters, numbers, and underscore ♦ Max. number of days: 999 days 3. Type the activation key again to confirm. 4. Click Save. The limit is immediately applied. For example: Note: Keep the activation key somewhere secure because it cannot be recovered. In case you forget the activation key, press the reset button/switch for 8 seconds to set the Control Pad to default. This will reset all configuration of the Control Pad to default and remove any projects and Viewers stored on the Control Pad. To disable the validity period, click Enter Activation Key to type the activation key provided by the system integrator.

Monitor

The Monitor tab allows you to view and enable the monitors that have been configured for Flags and digital input devices in ATEN Configurator. Click the slide bar next to the monitor you want to enable or use the drop-down menu to select **All On** or **All Off**.



For more information about creating monitors, see *Control System Software Guide*.

Network

The Network tab allows you to view and configure the Control Pad's network settings. Select **Manually (DHCP off)** to set a static *IP Address*, *Subnet Mask*, and *Default Gateway*, or **Use DHCP** to have the server assign an IP address to the Control Pad.

Note: Make sure to set the Control Pad's IP address and default gateway to the same subnet.



Connections

The Connections tab allows you to view the connection statuses and IP addresses of licensed devices, ATEN Keypads, and ATEN Expansion Boxes.

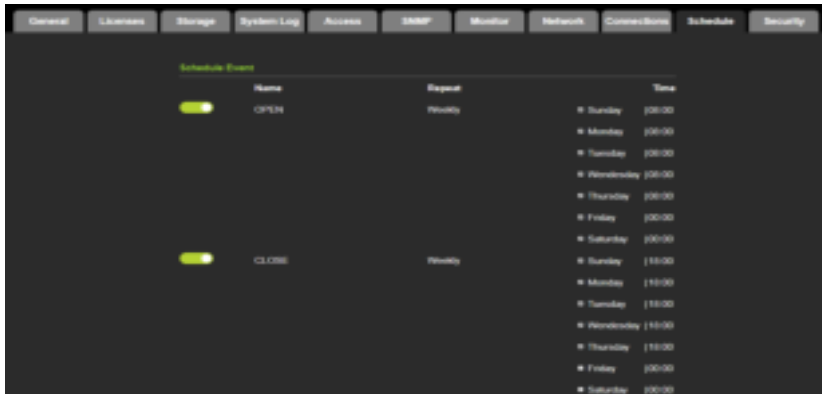


Schedule

The Schedule tab lists scheduled events predefined using the ATEN Configurator. You can use this tab to do the following:

- ◆ Enable or disable scheduled events.
- ◆ Enable or disable scheduled days

For details on setting up scheduled events, see *Control System Software Guide*.



Security

The Security tab allows you to set up security mechanisms to secure the browsing sessions between your computer and the Control Pad's web console.



- ♦ **SSL Certificate:** To enable SSL encryption on the Control Pad, purchase and obtain an SSL certificate from a trusted certifying authority and click **Upload** to apply the certificate.
- ♦ **TLS Support:** Each Control Pad supports TLS 1.0, 1.1, and 1.2 to allow communications with devices supporting different versions of the TLS. If you have any security concerns, disable the **Enable TLS 1.0 and TLS 1.1** setting to only allow communications among devices that support TLS 1.2 and click **Save**.
- ♦ **IEEE 802.1X Authentication:** To enable the 802.1X authentication on the Control Pad, click this checkbox and then click the **Settings** button to configure the required settings.

Note: Make sure that your network switch is IEEE 802.1X compliant.

Refer to the table below for the details of configuration applicable to each authentication method.

Authentication Method	Setup
PEAP	♦ CA Certification: Validate the server certificate by enabling Verification of Service Certificate, and then upload a CA certificate. ♦ User Name & Password: Enter the credentials required by the authentication server.

Authentication Method	Setup
EAP-TTLS	♦ CA Certification: Validate the server certificate by enabling Verification of Service Certificate, and then upload a CA certificate. ♦ Inner Authentication: Based on your network administrator' requirement, select an inner authentication method (MSCHAPv2, CHAP, or PAP). ♦ User Name & Password: Enter the credentials required by the authentication server.
EAP-TLS	♦ CA Certification: Validate the server certificate by enabling Verification of Service Certificate, and then upload a CA certificate. ♦ Identity: Enter the identity of the Control Pad. ♦ Client Certificate: Browse to upload a client certificate. ♦ Client Private Key: Browse to upload a client private key. ♦ Private Password: Enable this setting to add a private password.

Safety Instructions

General

- ♦ Read all of these instructions. Save them for future reference.
- ♦ Follow all warnings and instructions marked on the device.
- ♦ This product is for indoor use only.
- ♦ Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- ♦ Caution: Risk of explosion if the battery is replaced by an incorrect type. Always dispose of used batteries according to the proper instructions.
- ♦ 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.
- ♦ Avoid circuit overloads. Before connecting equipment to a circuit, know the power supply's limit and never exceed it. Always review the electrical specifications of a circuit to ensure that you are not creating a dangerous condition or that one doesn't already exist. Circuit overloads can cause a fire and destroy equipment.

Rack Mount

- ♦ Before working on the rack, make sure that the stabilizers are secured to the rack, extended to the floor, and that the full weight of the rack rests on the floor. Install front and side stabilizers on a single rack or front stabilizers for joined multiple racks before working on the rack.
- ♦ Always load the rack from the bottom up, and load the heaviest item in the rack first.
- ♦ Make sure that the rack is level and stable before extending a device from the rack.
- ♦ Use caution when pressing the device rail release latches and sliding a device into or out of a rack; the slide rails can pinch your fingers.
- ♦ After a device is inserted into the rack, carefully extend the rail into a locking position, and then slide the device into the rack.
- ♦ Do not overload the AC supply branch circuit that provides power to the rack. The total rack load should not exceed 80 percent of the branch circuit rating.
- ♦ Make sure that all equipment used on the rack – including power strips and other electrical connectors – is properly grounded.
- ♦ Ensure that proper airflow is provided to devices in the rack.
- ♦ Ensure that the operating ambient temperature of the rack environment does not exceed the maximum ambient temperature specified for the equipment by the manufacturer.
- ♦ Do not step on or stand on any device when servicing other devices in a rack.
- ♦ **Caution:** Slide/rail (LCD KVM) mounted equipment is not to be used as a shelf or a work space.



Technical Support

International

- ♦ For online technical support – including troubleshooting, documentation, and software updates: <http://eservice.aten.com>
- ♦ For telephone support, see *Telephone Support*, page iv:

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting	https://eservice.aten.com
	Documentation	
	Software Updates	
Telephone Support		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

	VK0100	VK0200
Interface		
Keypad Layout	Up to 14 layout variations using 4 ~ 8 buttons	Up to 125 layout variations using 6 ~ 12 buttons
Serial	• 2 x Bidirectional RS-232 Port (2 x 3-Pole Terminal Block Connector) • 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	
Relay	• 2 x Relay Channel (2 x 2-Pole Terminal Block Connector) • Normally open, isolated Relays • Contact Rating: Max 24 VDC, 1A	
Digital Input	• 1 x Digital Input Channel (1 x 2-Pole Terminal Block Connector); • VDC Mode - Input Voltage Range: 0 to 5 V DC - Programmable Range: 1 to 5 V DC • Dry Contact Mode - Pull-up 2k ohms to + 5 V DC	
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS, SSH • DHCP-enabled. Default IP settings (IP address 192.168.0.60, subnet mask 255.255.255.0) will be automatically applied if no IP address is assigned within 30 seconds of connecting to the network.	
Switches & Buttons		
Controller ID Switch	1 x 16-segment Switch	
Reset Button	1 x Semi-recessed Pushbutton	
Power		
Power Consumption	DC 5V : 1.1W : 5 BTU/h PoE : 1.375 W : 6 BTU/h	DC 5V : 1.15W : 5 BTU/h PoE : 1.44 W / 7 BTU/h

	VK0100	VK0200
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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

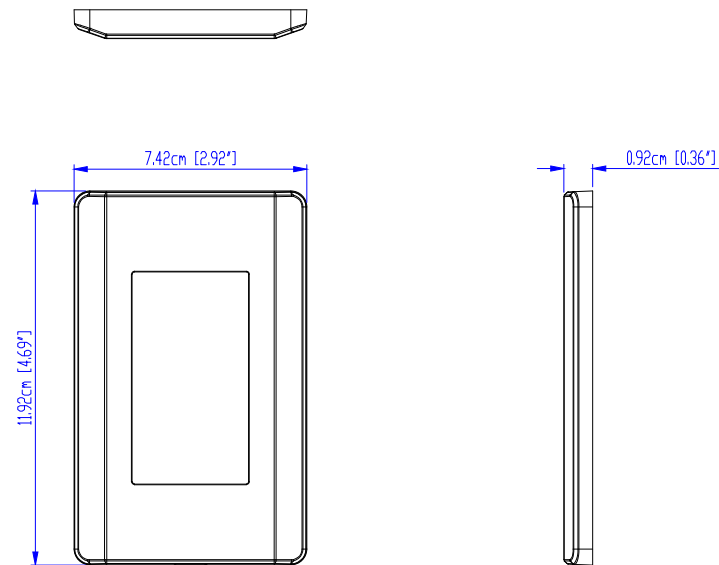
Housing	Plastic	
Weight	0.16 kg (0.35 lb)	0.19 kg (0.42 lb)
Dimensions	11.63 x 7.06 x 4.84 cm (4.58 x 2.78 x 1.91 in)	8.32 x 14.76 x 4.84 cm (3.28 x 5.81 x 1.91 in)

Mobile Control License

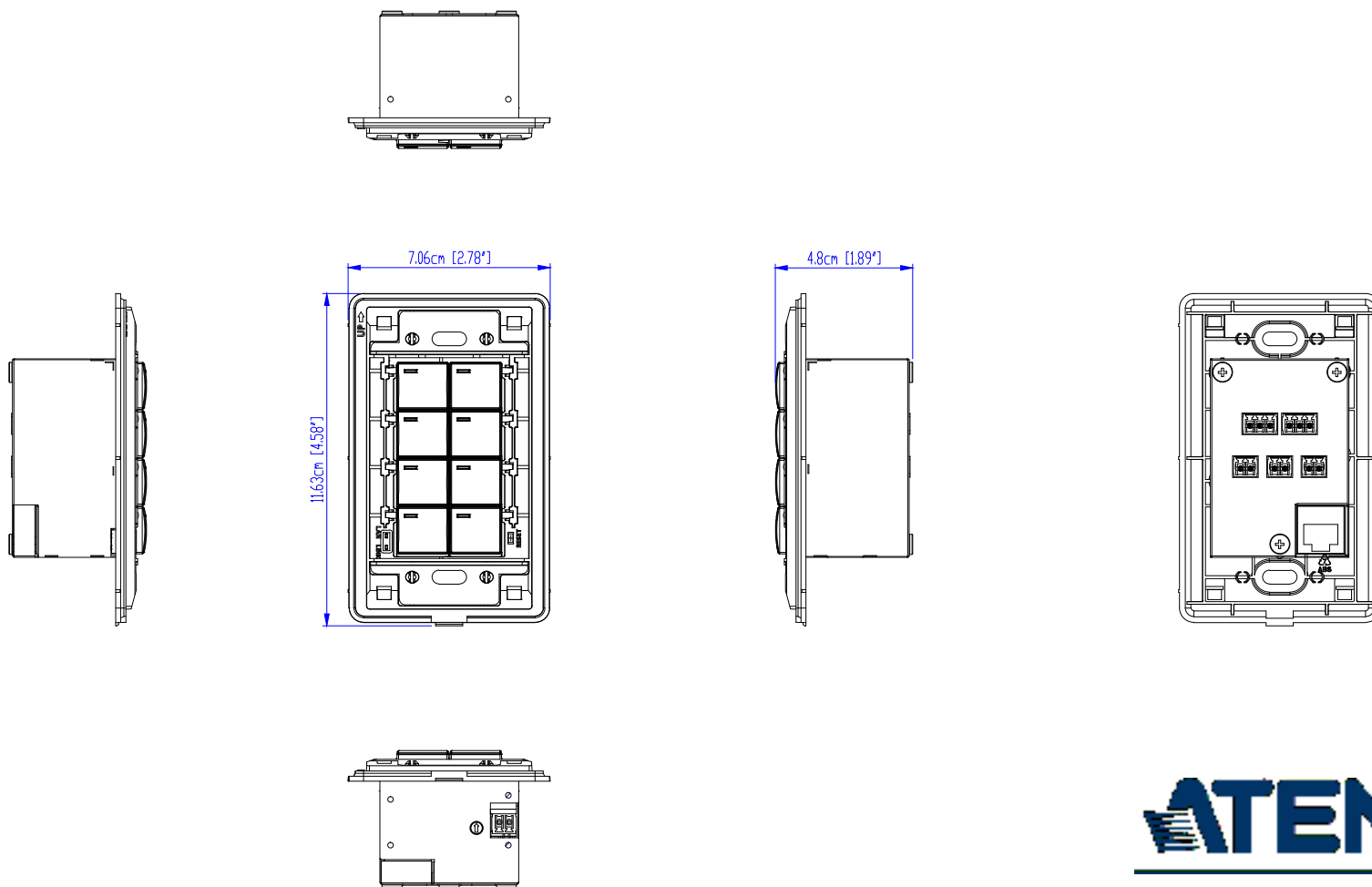
No. of free licenses	0
Max. no. of paid licenses	10

Note: Each time a mobile device connects to an ATEN Control Pad for remote control, one license on the Control Pad will be occupied. To purchase and add additional licenses to your Control Pad, contact your local sales representative for more information.

CAD Drawings

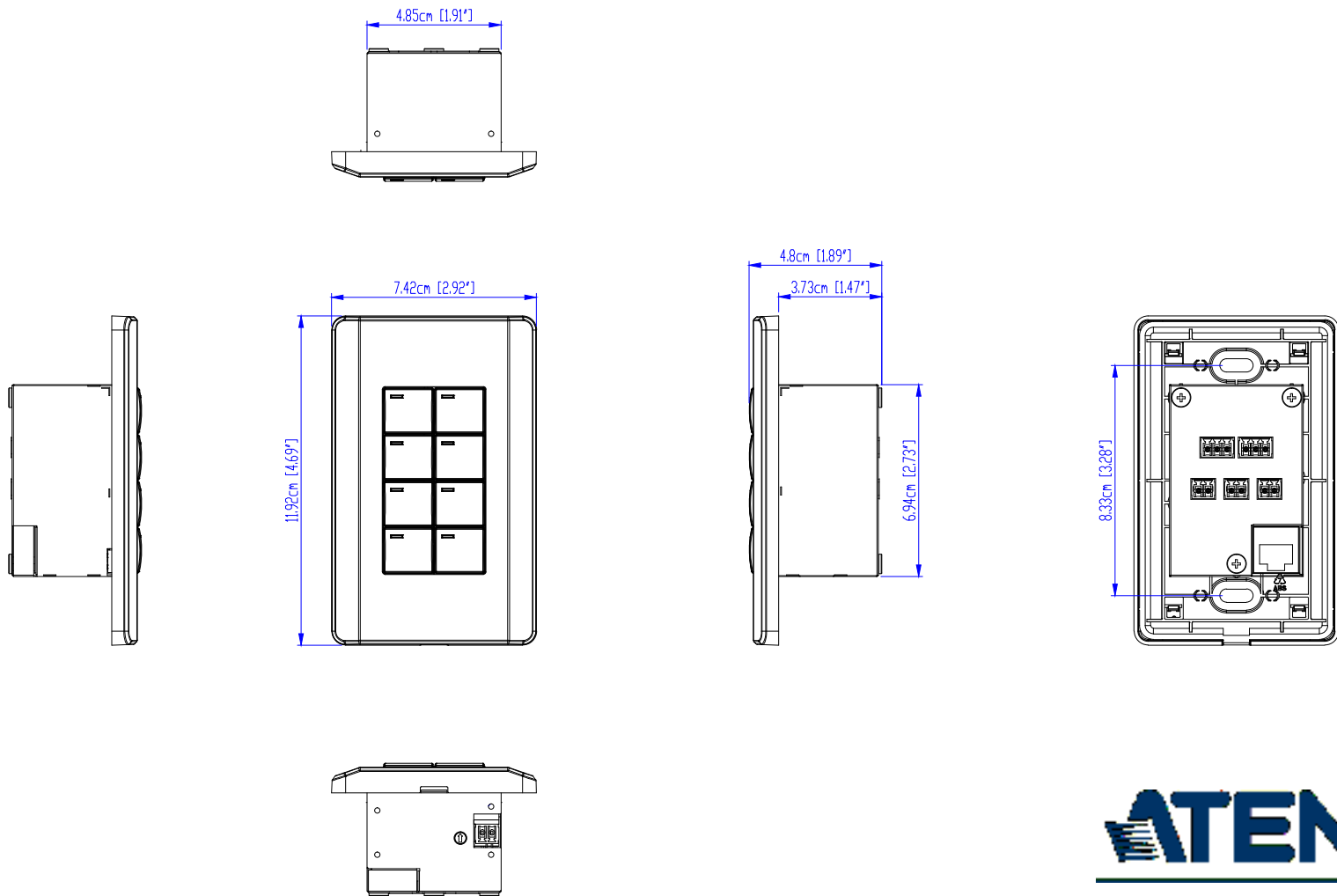


ATEN
VK0100



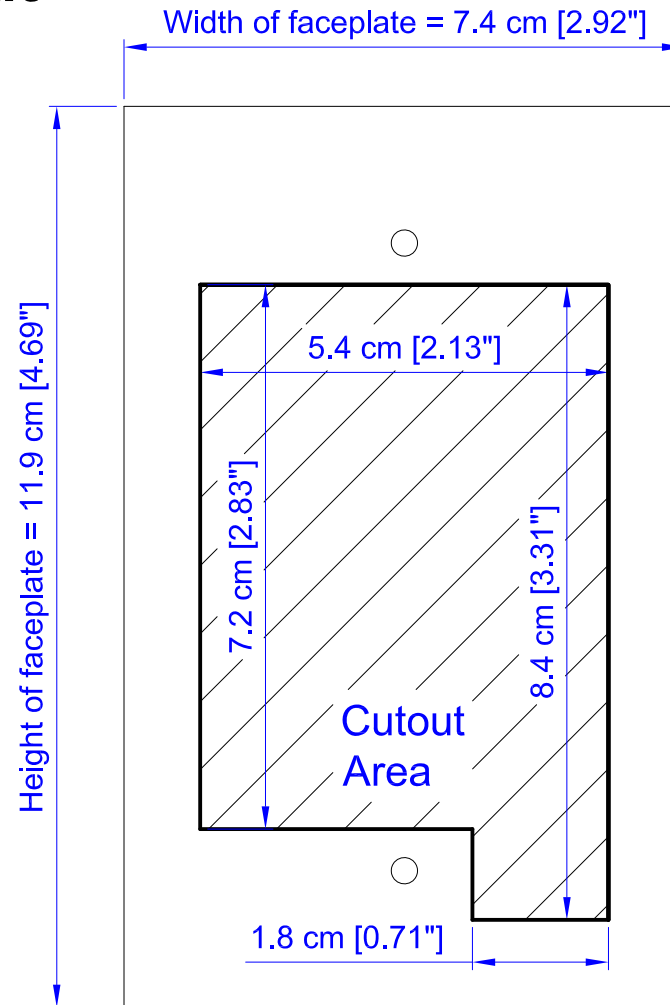
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VK0100



ATEN
VK0100

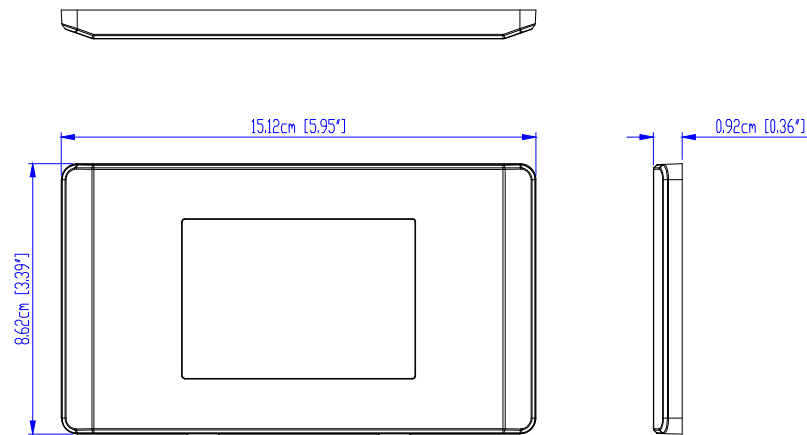
Panel Mount Cutout



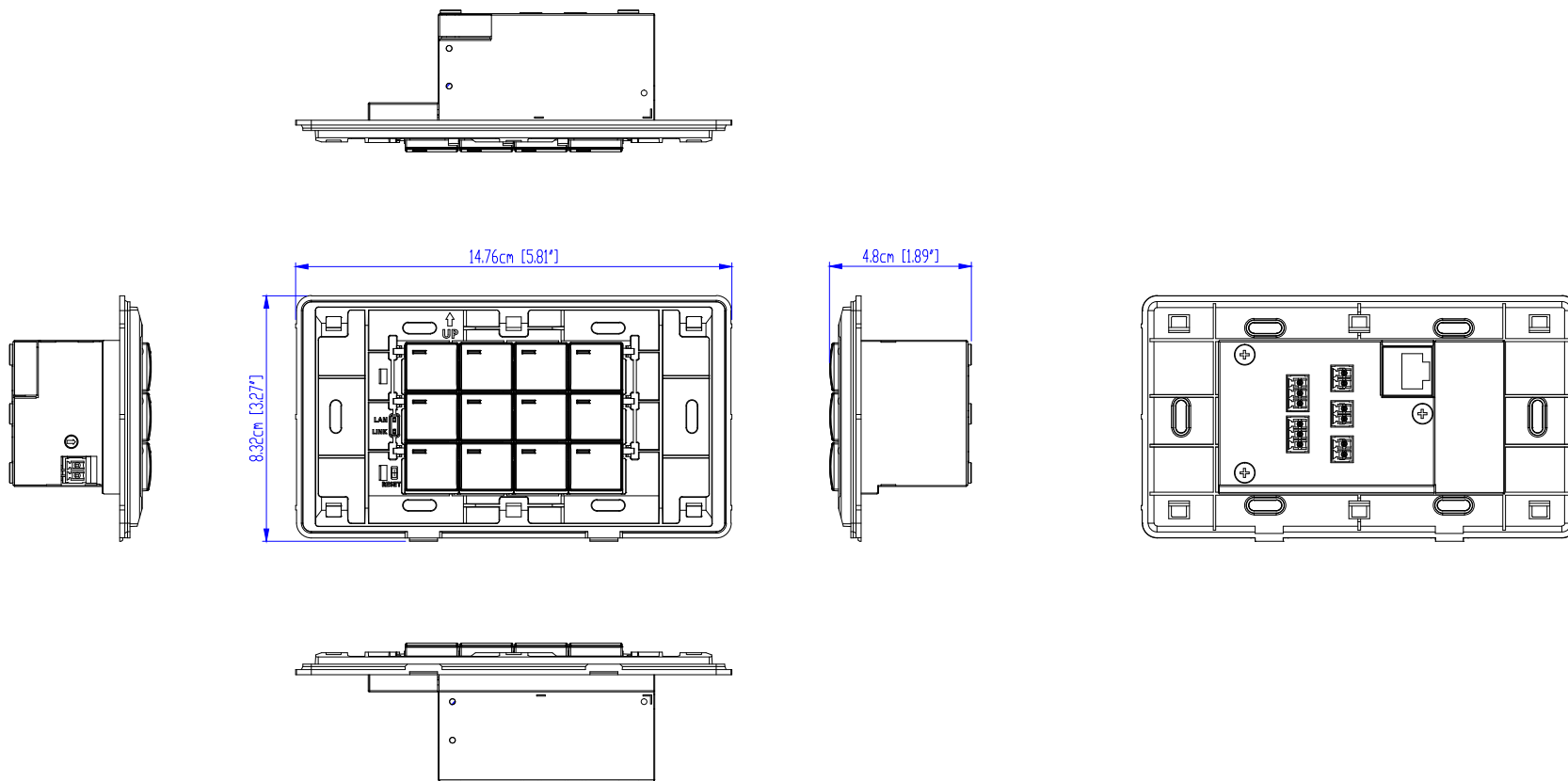
Note: ATEN recommends a 1-gang wall box with a depth of at least 5 cm (1.97 inches) to accommodate the connectors and cables.



CAD Drawings

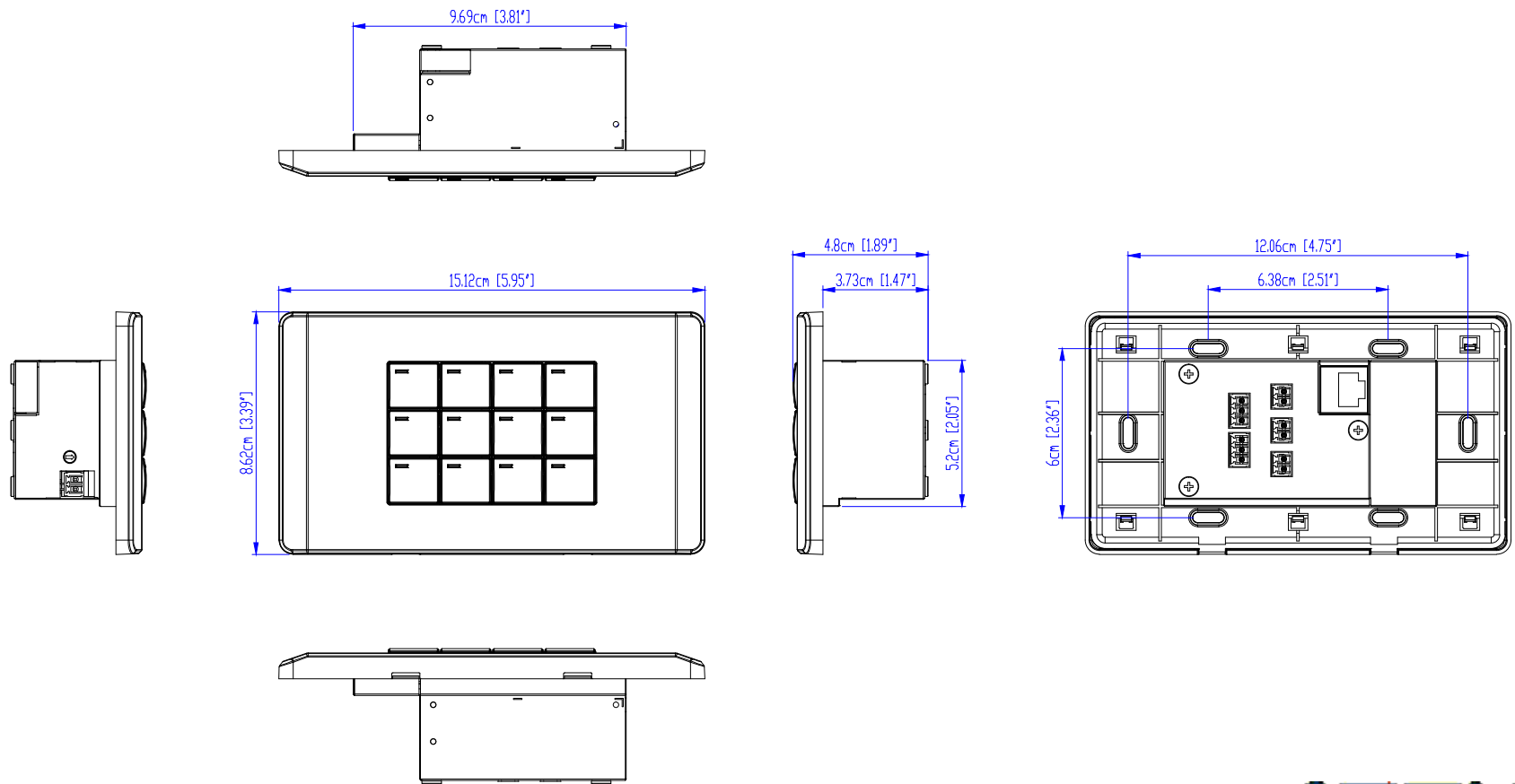


VK0200



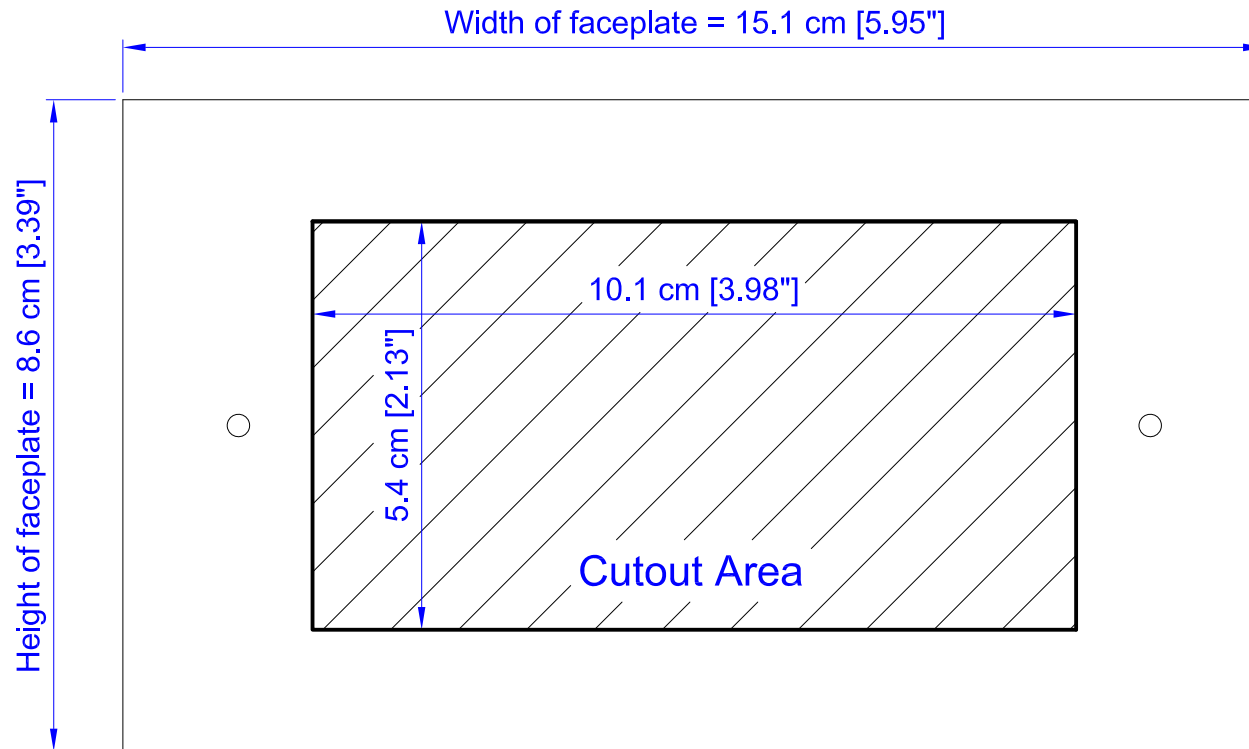
ATEN

VK0200



ATEN
VK0200

Panel Mount Cutout



Note: ATEN recommends a 2-gang wall box with a depth of at least 5 cm (1.97 inches) to accommodate the connectors and cables.

ATEN Control Pad Reset Button

Use the reset button on the ATEN Control Pad can be used to restore the network settings, configuration settings, and/or all settings to default.

Reset Button Functions		
Button LEDs ON/OFF	Operation	Description
ON	Short press	Resets the Control Pad's network settings.
	Press and hold until the button LEDs blink once, with the buzzer beeping once (about 8 seconds)	Resets all settings back to factory default (deleting all Viewers, Projects, and account/password) but retains the network and license settings.
OFF	While pressing and holding, power on the Control Pad, and release when the buzzer beeps once, with the button LEDs blinking.	Enters Recovery Mode without resetting the Control Pad's settings.
	While pressing and holding, power on the Control Pad, and release when the buzzer beeps twice, with the button LEDs blinking.	Resets all settings back to factory default but retains the license settings, and enters Recovery Mode.
	While pressing and holding, turn on the Control Pad, and release when the buzzer beeps 3 times, with the button LEDs blinking.	Resets all of the Control Pad's settings, including Viewers, Projects, account/password, network, and licenses.

ATEN Standard Warranty Policy

The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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