Smart Controller Software
User Operation Guide

Model:

SKP-15i

rev.2021.06Jun.16

User Operation Guide

Software Operation Guide

Specifications are subject to changes without notice.

OVERVIEW

The ABtUS **SKP-15i** of smart controllers is able to control any RS232 enabled devices through RS232 and also a PC when connected to a USB port of the PC.

To allow the Smart Controller to control the PC, scan the QR or use the following link to download and install the software onto the PC.

http://avmedia.com.sg/wp-content/uploads/15/Smart-Controller.exe

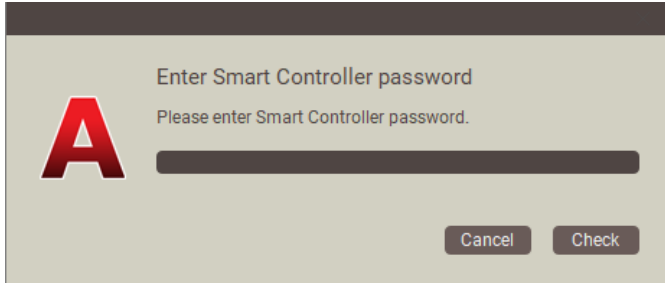The software supports Windows 10 , 64bit

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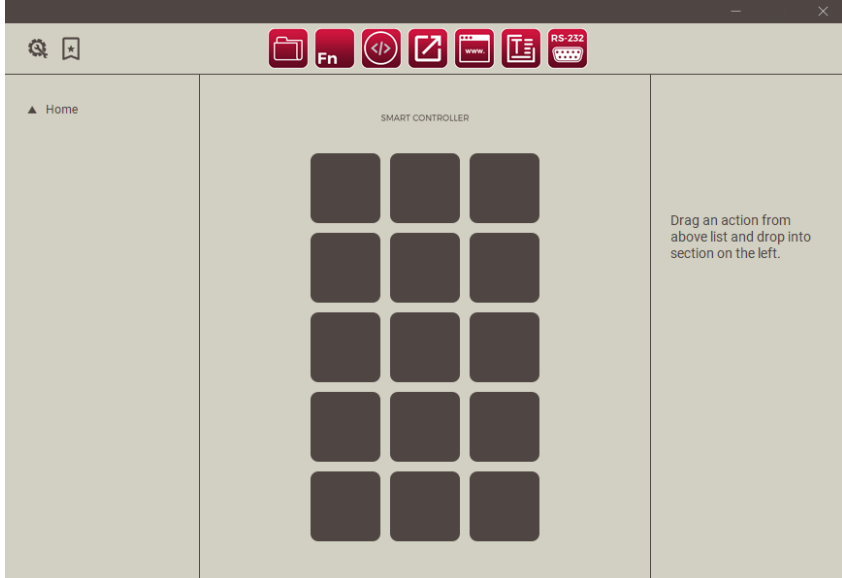
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Getting Started

This guide will cover the basic operations and features of the software
1.1   Launching the software for the first time

When the software is launched for the first time, a pop up will prompt for a password. By default there's no password. Simply press enter of click "check" to gain access to access the software.
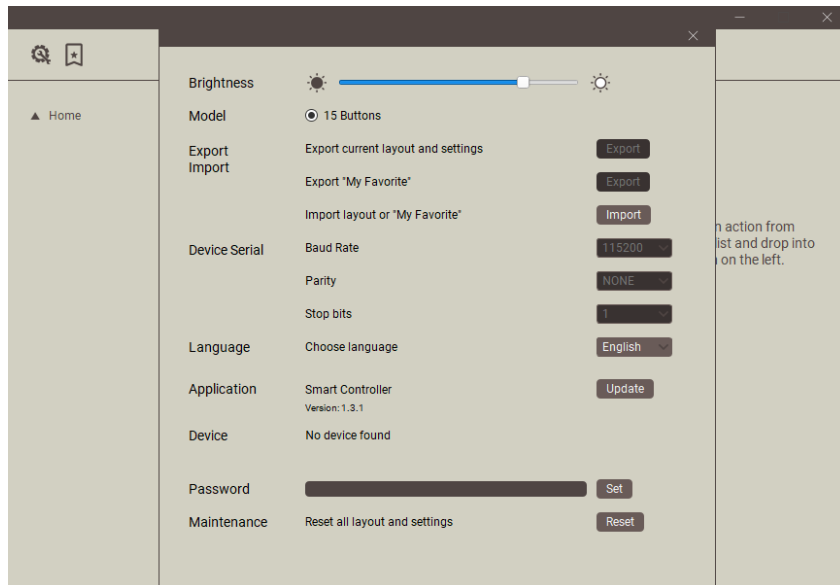

(Software Home Page)

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1.2   Set password

Click on the setting button (⚙ icon) at the top left of the window to enter the settings menu

It is recommended to create a password immediately after the first launch to protect unauthorized access especially if the software is installed on an OPS, a shared or public PC.

In the settings menu, type in the desired password and click "set" to set/change the login password.
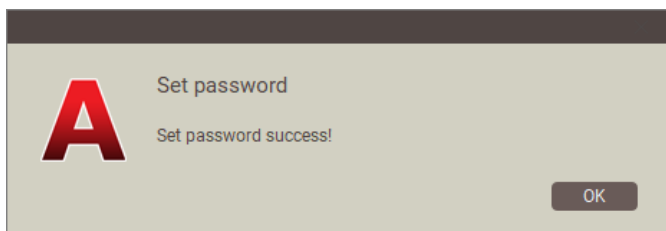
A pop up will then appear to indicate that the password is successfully set.

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Settings

2.1 Brightness adjustments
Slide the bar to adjust the brightness of the LCD. Sliding towards the left will darken and sliding towards the right will brighten the LCD

2.2 Export current layout and settings
The software will prompt user to select a location to save the current settings when the "Export" button is clicked

2.3 Export "My "Favourite"
The software will prompt user to select a location to save "My Favourites" settings when the "Export" button is clicked

2.4 Import layout or "My Favourite"
The software will prompt user to open a previously saved file or setting

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2.5 Device Serial

Click on each of the parameters to activate a drop down list to set the baud rate, parity and stop bit of the Smart Controller.

When the Smart Controller is not connected to the PC, the selections are automatically greyed out as parameter settings are not allowed without a physically connected device.

2.6 Language

Click on the drop down list to select desired language

2.7 Application Update

The current version of the software is shown here. Clicking on the "Update" button will prompt the software to search for an update if the PC is connected to the internet.

If the current software is already on the latest version, a window will pop up to inform the user that it's already up to date.

2.8 Maintenance

Clicking on the reset button will delete all unsaved layouts and settings.

Always ensure that critical settings were saved/exported before resetting.

FUNCTIONS KEY

Drag a function key and drop it onto a desired position to create a specific function for each button.

3.1 Types of function keys

Folder
Store an organized group of key actions. Folder can be linked to an application, and folder will open automatically when the application is launched

Hotkey
Store an organized group of key actions. Folder can be linked to an application, and folder will open automatically when the application is launched

Launch
Execute an application, file, folder path, or command-line by pressing on the button

Marco
A sequence of commands or keyboard strokes stored in the assigned key. Recall the macro key action by pressing on the button

Text String
A sequence of characters defined by users. Text string can be text message, source code or script that is stored in the assigned key. Recall the text string by pressing on the button

Website
Search the web or navigate the site by pressing on the button

Serial Communication
A key or a combination of keys used together to write RS232. Recall the RS232 write action by pressing on the button
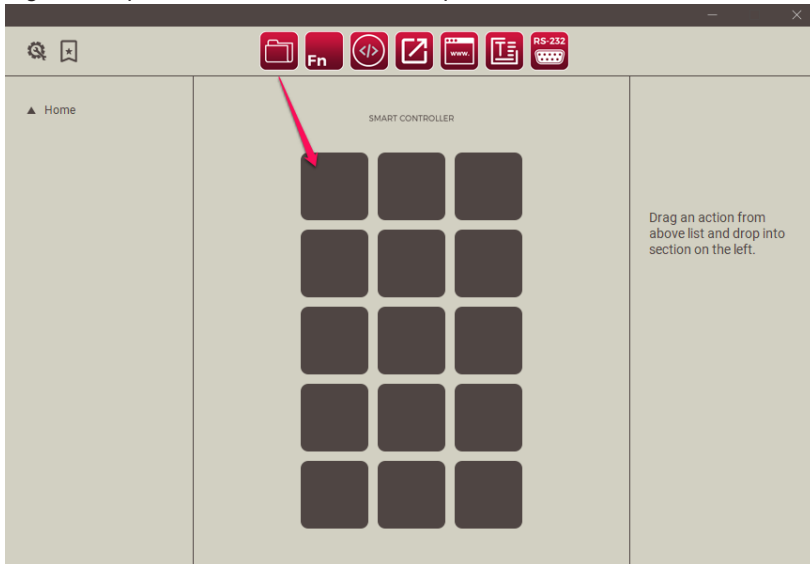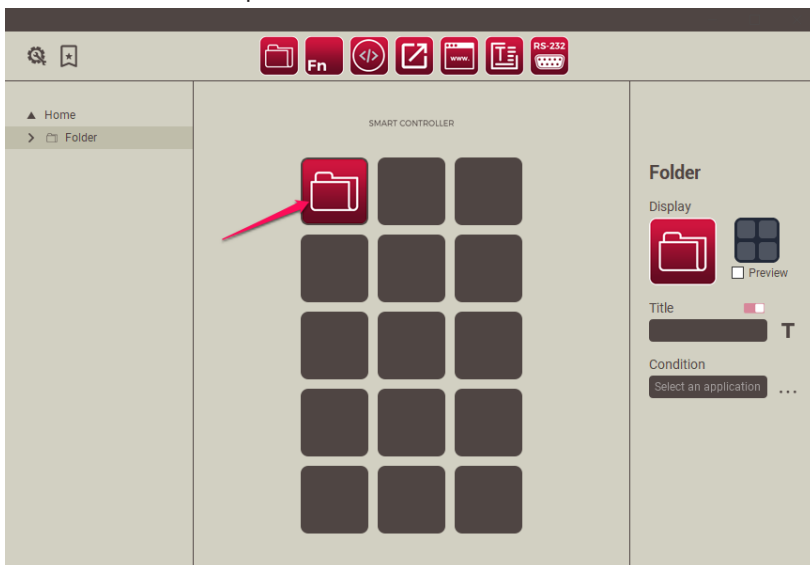
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3.2 Creating Folders

Folders are useful in organizing functions keys in groups for easier access.

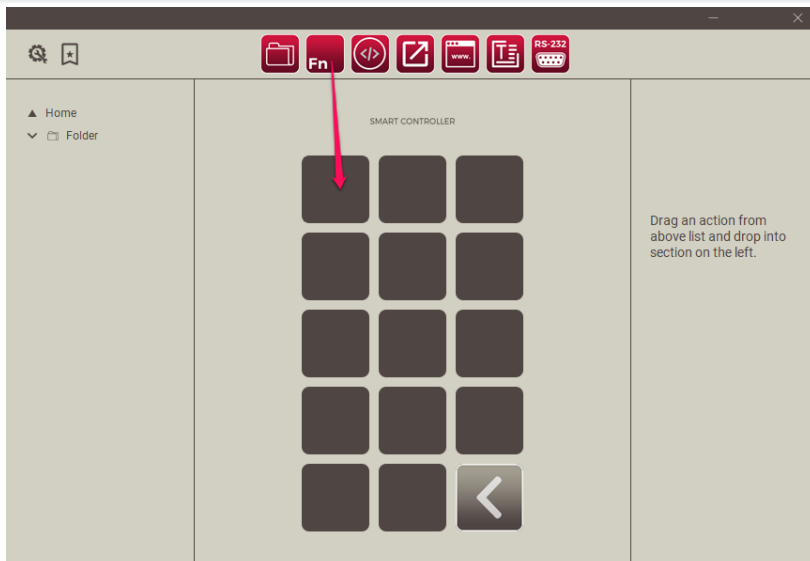First, drag and drop a folder icon onto a desired position.

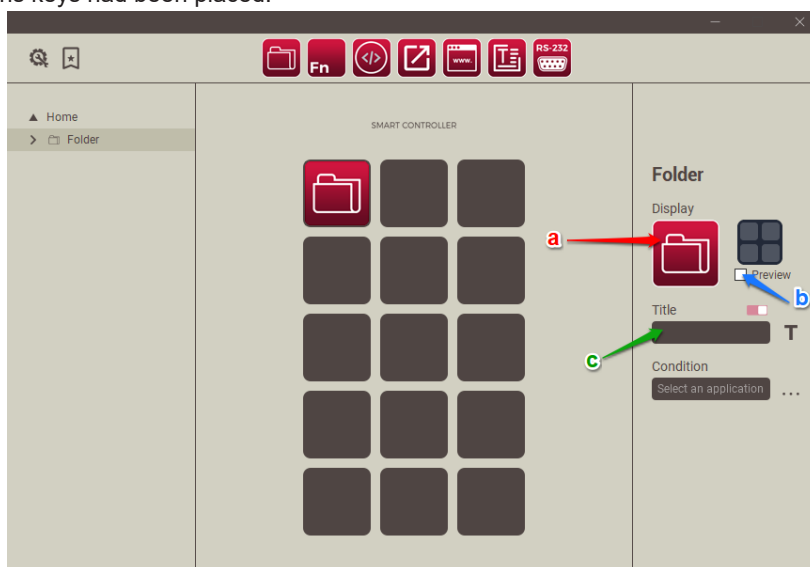Click on the Folder icon to open the Folder

Drag and drop functions keys into the folder.
It is not possible to have a folder in folder, hence, it is not possible to drag a folder key into an opened folder

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Click on the back key on the bottom right to return to the main configurations when all desired functions keys had been placed.


a. Click on the icon on the right panel to personalize the folder icon. Use a 72x72 pixel image in .jpg or .png to achieve the best results.

b. Check the preview option to change the folder icon to show a preview of the contents. Uncheck it to revert back to the folder icon.

c. Click on the title field and input a caption for the folder. Click on the **T** icon to show options to customize the font, text position, colours etc.

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3.3 Adding HotKeys

Drag and drop a HotKey function icon to a desired position
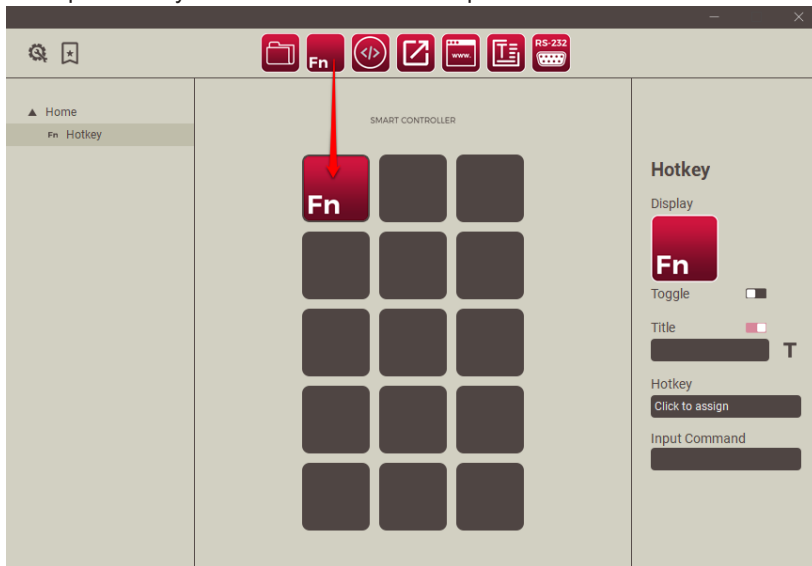
HotKeys are useful keys that allow users to customize a particular key to perform common used shortcut or actions. The function also allows the user to customize the Hotkey in 2 states.

For example, use the Hotkey function to set a physical key on the Smart Controller to start and stop a certain action. By setting a different display picture for each state will also allow user to determine which state it is currently in without toggling the key.

If a Hotkey involves holding down more than one key at the same time, it is advisable to enter one key at a time to ensure that the Hotkey is not invoked accidentally on the PC at the time of creation.

For example, Win + L is used to lock the PC. To ensure that the PC doesn't accidentally goes into the lock screen when creating your Hotkey,

1) Press Win key first, then release the key
2) Press L next, and release the key

Now, your Hotkey is set as Win + L.

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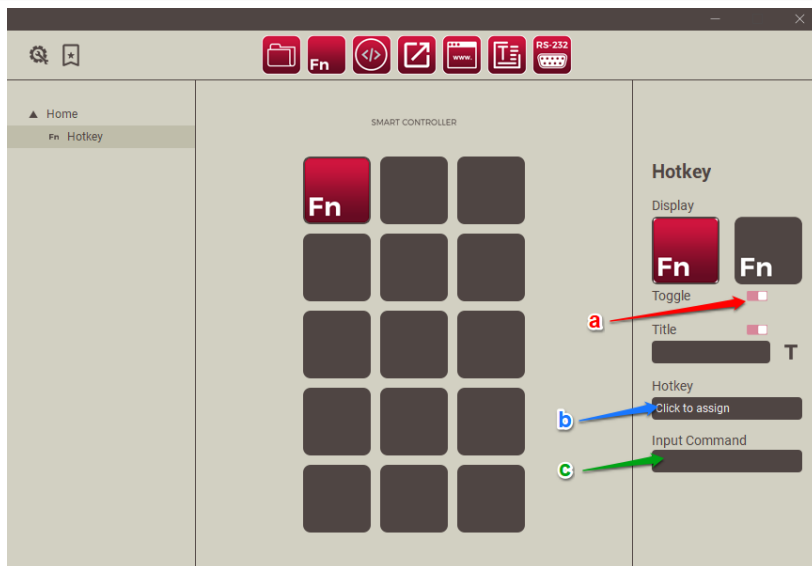
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a. Swipe Toggle key to the right to enable Toggle function. When toggle function is enabled, the key will toggles between the 2 function keys
b. Click on the Hotkey field and enters the desired key combination
c. Enter the desired Input Command in this field. This will allow the Smart Controller to trigger the key when it receives this command through its RS-232 port.

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3.4 Recording a Macro Key

Macro key is useful for users who regularly need to repeat a fixed set of actions. Recording these actions using macro function can allow user to achieve them with just one tap.
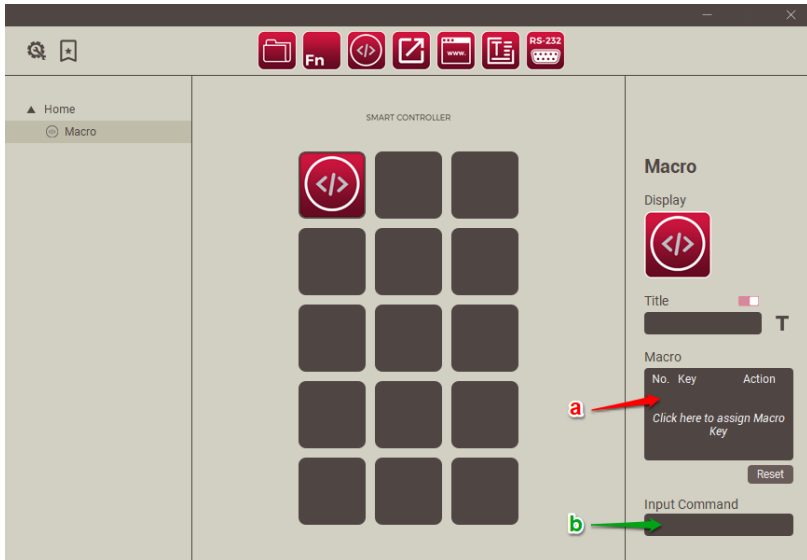
a.   Click on the Macro field and starts recording. Macro can recognize press & release or single click functions.
     Ensure that the Macro combinations are recorded in the correct key sequence including the sequence to press, hold and release each key.
b.   Enter the desired Input Command in this field. This will allow the Smart Controller to trigger the Macro when it receives this command through its RS-232 port.

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3,5 Launching an application, file or folder

Launch function allows users to set their commonly used applications, files or folders onto a single button for easy access.
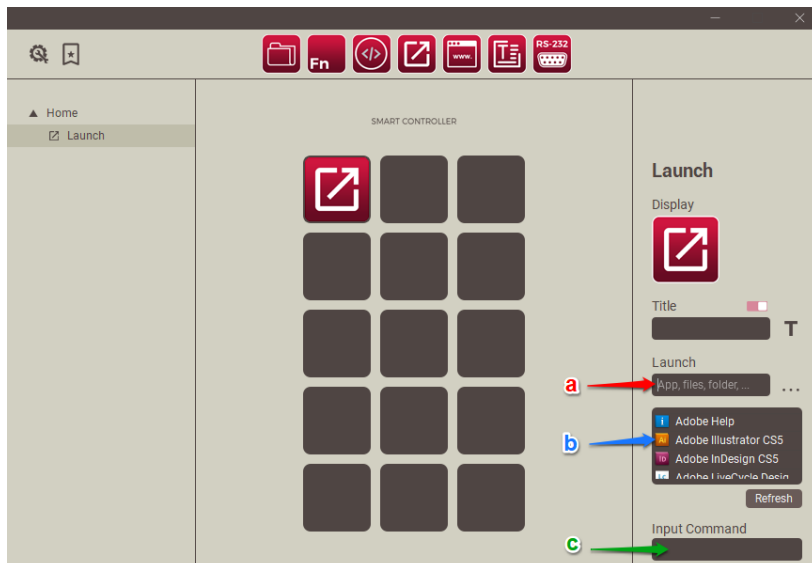

a.   Click and type in the path or click on to browse and select a particular file or applicaton to launch
b.   The software is able to display a list of installed application in the PC. Scroll through the list and select the desired application to set in onto the button. (if the desired application is not in the quick access list, enter the path of the application directly in the field above or use the browse function to locate the said application.)
c.   Enter the desired Input Command in this field. This will allow the Smart Controller to trigger the key to launch the app, file or folder on the PC when it receives this command through its RS-232 port.

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3.6 Importing a favorite website

The website function allow user to assign a unique url to a key. When the key is pressed, the default browser will launch and displays the saved website.
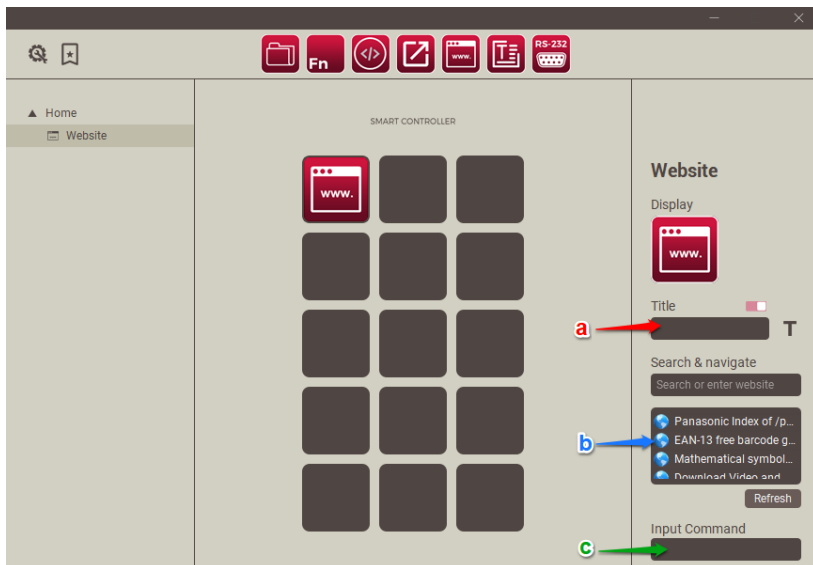
a.   Click and type in the desired url
b.   The software is able to display a list of previously saved bookmarks in the PC. Scroll through the list and select the desired url to set onto the button.
c.   Enter the desired Input Command in this field. This will allow the Smart Controller to trigger the key to launch the url on the PC when it receives this command through its RS-232 port.

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3.7 Assigning a series of characters

This function allows users to record a string of text and paste it when the key is pressed. It's a useful feature to record commonly used text message, email signatures, source codes or scripts to reducing copying and pasting of text repeatedly.
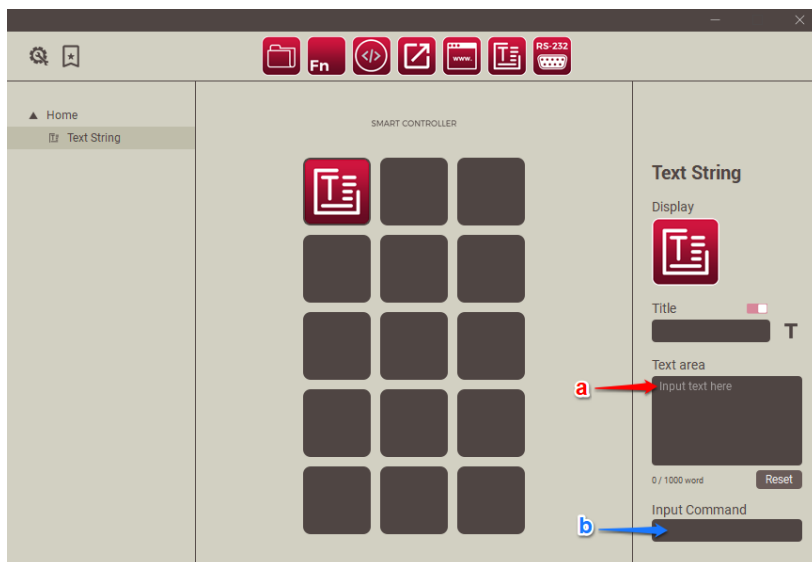
a. Click and type in the text string. Press the shift + enter key together to make a line break.
b. Enter the desired Input Command in this field. This will allow the Smart Controller to trigger the key to launch the text string on the PC when it receives this command through its RS-232 port.

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3.8 Programming a RS-232 command

This function allow user to send a specific RS-232 command to a connected device. For example, user could use this to control their display, Av equipment or even connect it to a central processor to act as a room control system.
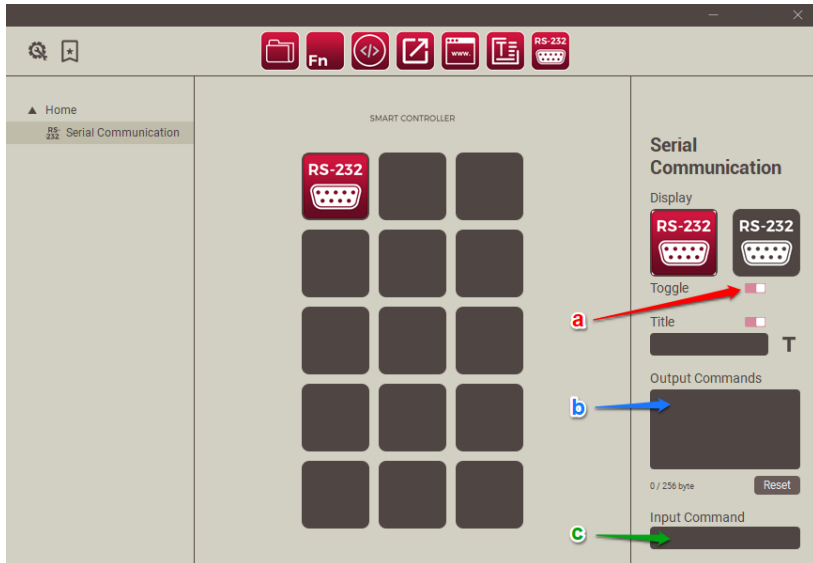
a. Swipe Toggle key to the right to enable Toggle function. When toggle function is enabled, the key will toggles between the 2 function keys
b. Click and enter the RS-232 command in Hex that is meant for the connect equipment. Only Hex format are allowed, ascii characters are not supported.
c. Enter the desired Input Command in this field. This will allow the Smart Controller to trigger the key to return the output RS-232 command when it receives this command through its RS-232 port.

Specifications are subject to changes without notice.

Customization

4.1 Changing the key's display/icon

Click on the default display icon on the right panel to personalize the icon.
Use a 72x72 pixel image in .jpg or .png to achieve the best results.
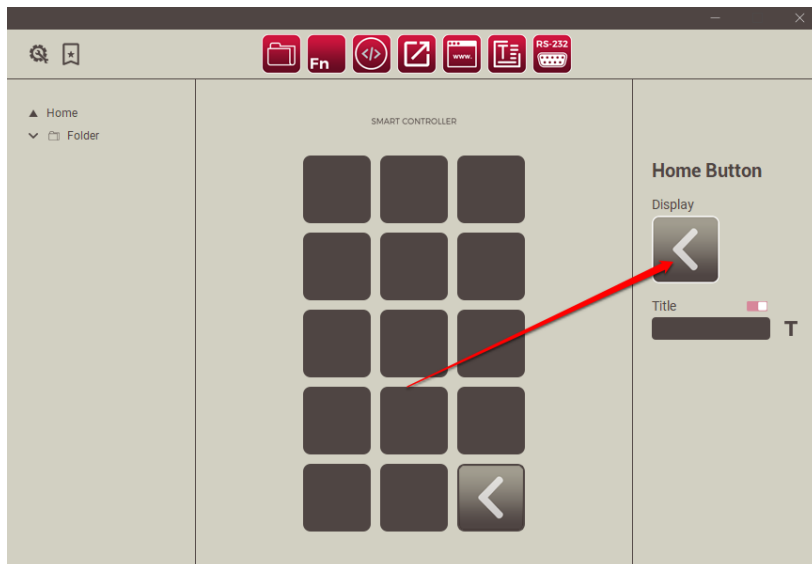
4.2 Adding a custom name for individual keys

To add a name for the key, complete the following:
a. Input the description of the key in the "Title" field. Upon completion, the icons on the left side menu will change accordingly to correspond to the new name.
b. Swipe the toggle to the right to show the title on the LCD, swipe to the left to hide.
c. Click on the **T** icon to show options to customize the font, font style, font size, font effects, text position and alignment, text rotation and colours.

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My Favorites and other shortcuts

5.1 My Favorites

Click the ⌖ icon on the top left of the window to call up My Favorites.
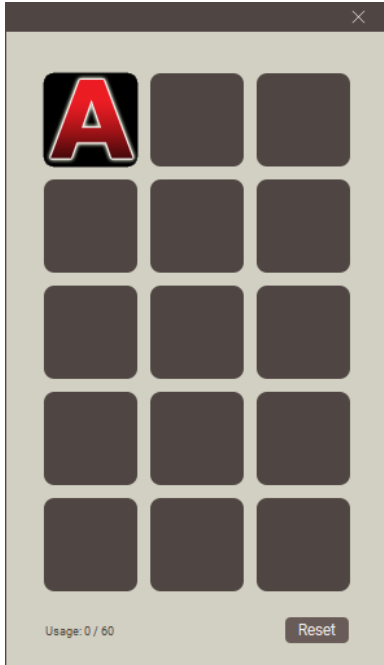
5.2 Keyboard shortcuts

Shortcuts	Description
CTRL+N	Create a new folder.
CTRL+K	Create a hotkey action.
CTRL+M	Create a macro action.
CTRL+L	Create a launch action.
CTRL+W	Create a website action.
CTRL+T	Create a text string action.
CTRL+X	Cut the selected item and copy it to the clipboard.
CTRL+C	Copy the selected item to the clipboard.
Delete	Remove the selected item.
CTRL+V	Paste the item of the clipboard into the selection.
CTRL+D	Save the action into my favorite list.

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5.3 Side Menu
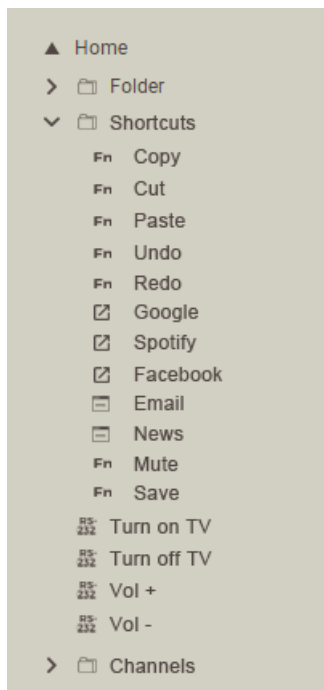
Use the side menu for easy access and quickly locate your custom keys and actions

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HELPFUL WINDOWS KEYBOARD SHORTCUTS

Copy, paste and other general keyboard shortcuts

Press this key	To do this
Ctrl + X	Cut the selected item.
Ctrl + C (or Ctrl + Insert)	Copy the selected item.
Ctrl + V (or Shift + Insert)	Paste the selected item.
Ctrl + Z	Undo an action.
Alt + Tab	Switch between open apps.
Alt + F4	Close the active item, or exit the active app.
Windows logo key ⊞ + L	Lock your PC.
Windows logo key ⊞ + D	Display and hide the desktop.
F2	Rename the selected item.
F3	Search for a file or folder in File Explorer.
F4	Display the address bar list in File Explorer.
F5	Refresh the active window.
F6	Cycle through screen elements in a window or on the desktop.
F10	Activate the Menu bar in the active app.
Alt + F8	Show your password on the sign-in screen.
Alt + Esc	Cycle through items in the order in which they were opened.
Alt + underlined letter	Perform the command for that letter.
Alt + Enter	Display properties for the selected item.
Alt + Spacebar	Open the shortcut menu for the active window.
Alt + Left arrow	Go back.
Alt + Right arrow	Go forward.
Alt + Page Up	Move up one screen.
Alt + Page Down	Move down one screen.
Ctrl + F4	Close the active document (in apps that are full-screen and let you have multiple documents open at the same time).
Ctrl + A	Select all items in a document or window.
Ctrl + D (or Delete)	Delete the selected item and move it to the Recycle Bin.
Ctrl + R (or F5)	Refresh the active window.
Ctrl + Y	Redo an action.
Ctrl + Right arrow	Move the cursor to the beginning of the next word.
Ctrl + Left arrow	Move the cursor to the beginning of the previous word.
Ctrl + Down arrow	Move the cursor to the beginning of the next paragraph.
Ctrl + Up arrow	Move the cursor to the beginning of the previous paragraph.
Ctrl + Alt + Tab	Use the arrow keys to switch between all open apps.
Alt + Shift + arrow keys	When a group or tile is in focus on the Start menu, move it in the direction specified.
Ctrl + Shift + arrow keys	When a tile is in focus on the Start menu, move it into another tile to create a folder.

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HELPFUL WINDOWS KEYBOARD SHORTCUTS

Copy, paste and other general keyboard shortcuts

Ctrl + arrow keys	Resize the Start menu when it's open.
Ctrl + arrow key (to move to an item) + Spacebar	Select multiple individual items in a window or on the desktop.
Ctrl + Shift with an arrow key	Select a block of text.
Ctrl + Esc	Open Start.
Ctrl + Shift + Esc	Open Task Manager.
Ctrl + Shift	Switch the keyboard layout when multiple keyboard layouts are available.
Ctrl + Spacebar	Turn the Chinese input method editor (IME) on or off.
Shift + F10	Display the shortcut menu for the selected item.
Shift with any arrow key	Select more than one item in a window or on the desktop, or select text in a document.
Shift + Delete	Delete the selected item without moving it to the Recycle Bin first.
Right arrow	Open the next menu to the right, or open a submenu.
Left arrow	Open the next menu to the left, or close a submenu.
Esc	Stop or leave the current task.
PrtScn	Take a screenshot of your whole screen and copy it to the clipboard. Note You can change this shortcut so it also opens screen snipping, which lets you edit your screenshot. Select **Start** ⊞ > **Settings** ⚙ > **Ease of Access** ↻ > **Keyboard**, and turn on the toggle under **Print Screen shortcut**.

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Windows logo key keyboard shortcuts

Press this key	To do this
Windows logo key	Open or close Start.
Windows logo key ⊞ + A	Open Action center.
Windows logo key ⊞ + B	Set focus in the notification area.
Windows logo key ⊞ + C	Open Cortana in listening mode. Notes This shortcut is turned off by default. To turn it on, select Start ⊞> Settings ⚙> Cortana, and turn on the toggle under Let Cortana listen for my commands when I press the Windows logo key + C. Cortana is available only in certain countries/regions, and some Cortana features might not be available everywhere. If Cortana isn't available or is turned off, you can still use search.
Windows logo key ⊞ + Shift + C	Open the charms menu.
Windows logo key ⊞ + Shift + D	Display and hide the desktop.
Windows logo key ⊞ + Alt + D	Display and hide the date and time on the desktop.
Windows logo key ⊞ + E	Open File Explorer.
Windows logo key ⊞ + F	Open Feedback Hub and take a screenshot.
Windows logo key ⊞ + G	Open Game bar when a game is open.
Windows logo key ⊞ + H	Start dictation.
Windows logo key ⊞ + I	Open Settings.
Windows logo key ⊞ + J	Set focus to a Windows tip when one is available. When a Windows tip appears, bring focus to the Tip. Pressing the keyboard shortcuts again to bring focus to the element on the screen to which the Windows tip is anchored.
Windows logo key ⊞ + K	Open the Connect quick action.
Windows logo key ⊞ + L	Lock your PC or switch accounts.
Windows logo key ⊞ + M	Minimize all windows.
Windows logo key ⊞ + O	Lock device orientation.
Windows logo key ⊞ + P	Choose a presentation display mode.
Windows logo key ⊞ + Ctrl + Q	Open Quick Assist.
Windows logo key ⊞ + R	Open the Run dialog box.
Windows logo key ⊞ + S	Open search.
Windows logo key ⊞ + Shift + S	Take a screenshot of part of your screen.
Windows logo key ⊞ + T	Cycle through apps on the taskbar.

Specifications are subject to changes without notice.

HELPFUL WINDOWS KEYBOARD SHORTCUTS

Windows logo key keyboard shortcuts

Windows logo key ⊞ + U	Open Ease of Access Center.
Windows logo key ⊞ + V	Open the clipboard. Note To activate this shortcut, select Start ⊞ > Settings ⚙> System ⌨ > Clipboard, and turn on the toggle under Clipboard history.
Windows logo key ⊞ + Shift + V	Cycle through notifications.
Windows logo key ⊞ + X	Open the Quick Link menu.
Windows logo key ⊞ + Y	Switch input between Windows Mixed Reality and your desktop.
Windows logo key ⊞ + Z	Show the commands available in an app in full-screen mode.
Windows logo key ⊞ + period (.) or semicolon (;)	Open emoji panel.
Windows logo key ⊞ + comma (,)	Temporarily peek at the desktop.
Windows logo key ⊞ + Pause	Display the System Properties dialog box.
Windows logo key ⊞ + Ctrl + F	Search for PCs (if you're on a network).
Windows logo key ⊞ + Shift + M	Restore minimized windows on the desktop.
Windows logo key ⊞ + number	Open the desktop and start the app pinned to the taskbar in the position indicated by the number. If the app is already running, switch to that app.
Windows logo key ⊞ + Shift + number	Open the desktop and start a new instance of the app pinned to the taskbar in the position indicated by the number
Windows logo key ⊞ + Ctrl + number	Open the desktop and open the Jump List for the app pinned to the taskbar in the position indicated by the number.
Windows logo key ⊞ + Ctrl + Shift + number	Open the desktop and open a new instance of the app located at the given position on the taskbar as an administrator.
Windows logo key ⊞ + Tab	Open Task view.
Windows logo key ⊞ + Up arrow	Maximize the window.
Windows logo key ⊞ + Down arrow	Remove current app from screen or minimize the desktop window.
Windows logo key ⊞ + Left arrow	Maximize the app or desktop window to the left side of the screen.
Windows logo key ⊞ + Right arrow	Maximize the app or desktop window to the right side of the screen.
Windows logo key ⊞ + Home	Minimize all except the active desktop window (restores all windows on second stroke).
Windows logo key ⊞ + Shift + Up arrow	Stretch the desktop window to the top and bottom of the screen.

Windows logo key keyboard shortcuts

Windows logo key ⊞ + Shift + Down arrow	Restore/minimize active desktop windows vertically, maintaining width.
Windows logo key ⊞ + Shift + Left arrow or Right arrow	Move an app or window in the desktop from one monitor to another.
Windows logo key ⊞ + Spacebar	Switch input language and keyboard layout.
Windows logo key ⊞ + Ctrl + Spacebar	Change to a previously selected input.
Windows logo key ⊞ + Ctrl + Enter	Turn on Narrator.
Windows logo key ⊞ + Plus (+)	Open Magnifier.
Windows logo key ⊞ + forward slash (/)	Begin IME reconversion
Windows logo key ⊞ + Ctrl + V	Open shoulder taps.
Windows logo key ⊞ + Ctrl + Shift + B	Wake PC from blank or black screen

AB**t**US
S I N G A P O R E