

# Installation Manual

## SMTCP-2

**Ethernet Control for SmartAVI Switches** 



Control most SmartAVI matrix switches from anywhere in the world

## **Introduction**

The SMTCP-2 is an RS-232 control module that allows most SmartAVI switching matrixes to be controlled remotely via HTTP or TELNET. Manage the switching functions of your matrix with ease from anywhere in the world. With the SMTCP-2 you can save up to 10 preset input/output configurations for easy access. TELNET access provides transparent command control of your matrix, perfect for use with automated third-party control software.

## **Features**

- Supports HTTP and TELNET control
- 10/100 Ethernet Interface
- Up to 10 user-definable configurations
- Password Protected
- Up to 5 Users can Control the Matrixes
- IP Configuration via TCP/IP and RS-232
- Flexible control of several types of matrixes

## **Applications**

- Server Collocation
- Digital Signage
- Airports
- Dealer Rooms
- Control Rooms
- Audio/Visual Presentations
- Hotels/Resorts
- KVM Switches

### What's in the Box?

PART NO.	QTY	DESCRIPTION
SMTCP-2	1	SMTCP-2 Device
PS5VDC2A	1	5VDC2A Power Supply
CCRS232-X	1	Serial male to male cross-over cable

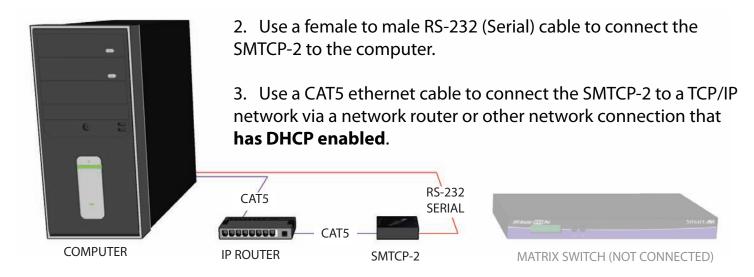
## **Technical Specifications**

Power	External 100-240 VAC/5VDC2A @10W	
Dimensions	2.8125"W x 1"H x 3.375"D	
Weight	0.5 lbs	
Approvals	UL, CE, ROHS Compliant	
Operating Temp.	32-131°F (0-55 °C)	
Storage Temp.	-4-185 °F (-20-85 °C)	
Humidity	Up to 95%	

## **Connecting to the SMTCP-2 for the first time**

The first time you connect the SMTCP-2, you will need to perform the following steps to set the initial configuration. This includes establishing an HTTP connection and manually setting the IP address for the SMTCP-2.

1. Power off all devices.

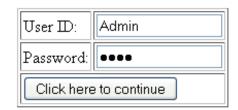


- 4. Power on the computer and run a terminal program such as Hyperterminal to open a serial connection to the SMTCP-2 using the standard 9600 baud, 8, N, 1 configuration.
- 5. Power on the SMTCP-2. When powered on, it will obtain an IP address automatically via DHCP from the network.
- 6. The IP information for the SMTCP-2 will be displayed on the terminal screen as follows:

NOTE: the above IP address is for demonstration purposes only. Actual results may be different.

7. The IP address shown must be used to connect to the SMTCP via HTTP.

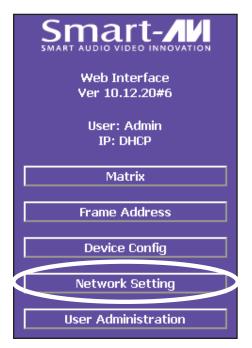
8. Open a web browser and navigate to the IP address that is indicated. You will be prompted to enter a username and password.



9. The default login (case sensitive) is as follows:

**User ID:** Admin **Password:** Pass

10. Once connected to the SMTCP-2, you will see the following menu of options:

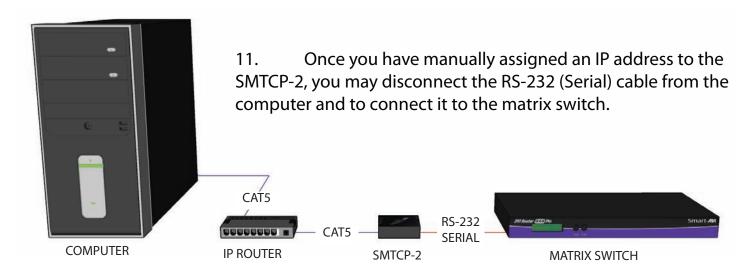


- 1. Matrix
- 2. Frame Address
- 3. Device Config
- 4. Network Setting
- 5. User Administration

For the initial setup, click the **Network Setting** button and manually assign an IP address to the SMTCP-2. This will assure

that the SMTCP-2 will always have the same IP address. Be sure to choose an address that will not conflict with any other devices on the network, and that the address is not in the range of the DHCP server.



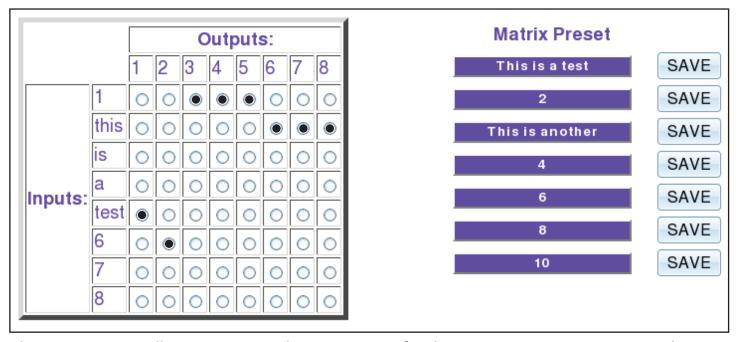


It is also recommended that you set a password for the SMTCP-2 at this point. To set the password (and/or username), click on the <u>User Administration</u> button, enter the password and click *Submit*. This sets the password for the HTTP interface only.

## **Controlling the SMTCP-2 via HTTP**

Once you have completed the Initial Setup for the SMTCP-2, you can now begin configuring it for your matrix. The following details the individual menu options in the web interface:

#### **Matrix Menu**

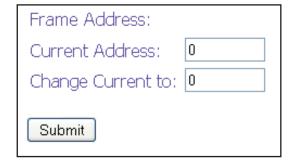


The matrix menu allows you to set the crosspoints for the matrix. Crosspoints are used to route signals from the individual inputs to individual outputs. The output channels can only have one input, but each input can have several outputs.

Example shown in diagram: Input 1 to Outputs 3,4,5 Input **this** to Outputs 6,7,8 Input **test** to Output 1 Input 6 to Output 2

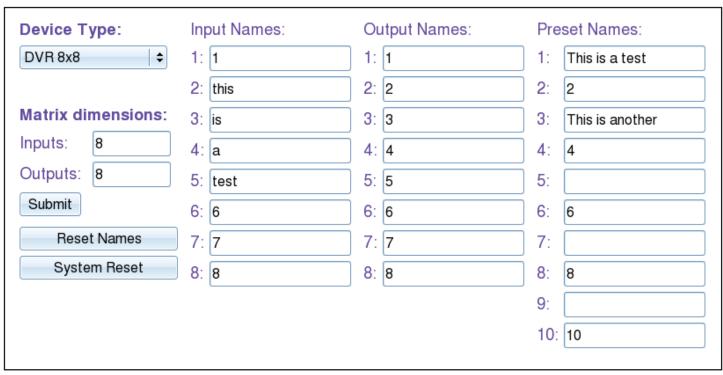
The Matrix Preset option allows you to save and recall crosspoint configurations with the push of a button. To save a preset, simply configure your crosspoints and press the SAVE button next to the desired preset. To recall a preset, simply click on the button with its name. To edit the preset names, see the **Device Config** menu.

#### Frame Address Menu



The frame address menu allows you to set the frame address of the current matrix switch. Frame addresses allow commands to be sent to different matrixes in series. For more information on the specific commands available, please see the instructions for your matrix switch.

## **Device Config Menu**

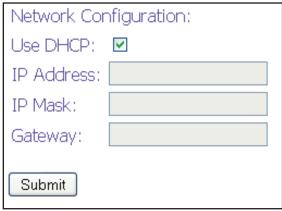


The device configuration menu allows you to select the type of matrix you are using, specify the dimensions of the matrix, and assign names to the inputs, outputs and presets, reset the names and reset the system to factory defaults.

To begin, set the type of device you are using from the drop-down menu labeled Device Type and specify the Matrix Dimensions. After specifying the Matrix Dimensions, press the Submit button to make the changes.

Once the type of matrix is entered, you can assign names to each of your inputs, outputs and presets. The preset names are used in the Matrix Menu for quick storage and retrieval of matrix configurations. Leaving a preset blank will exclude it from the Matrix Menu.

## <u>Network Setting Menu</u>



The network setting menu allows you to assign a static IP address to the SMTCP-2. It is recommended that you statically assign an IP address to avoid any future conflict or connectivity issues with DHCP.

#### **User Administration Menu**

Administration:	
User Name:	Admin
Password:	••••
Retype Password:	
Submit	

The User Administration menu allows you to change the user name and password for the SMTCP-2. The default user name for the SMTCP-2 is Admin and the password is Pass. Once you modify the login information, press the Submit button to make the changes.

#### **Controlling the SMTCP-2 via TELNET**

Commands may be sent transparently to the matrix via a TELNET connection to the SMTCP-2. To use this function, use a telnet client such as Hyperterminal or PuTTY to connect to the IP address of the SMTCP-2. You will be prompted for a username and password - this will be the same as the login information via HTTP. Once logged in, the SMTCP-2 is ready to accept the standard RS-232 commands. For a list of the available commands, please see the user manual for the matrix you are using. Although the commands are not echoed to the client display, the commands are being issued to the matrix. Should you need commands to be echoed, please see the instructions for your TELNET client.

#### **Upgrading the SMTCP-2**

To updgrade the SMTCP-2 with the latest firmware, contact your sales representative to obtain the firmware upgrade file or visit the SMTCP-2 product page at www.smartavi.com. The version information is listed on the Main Menu. Once you have the file, use an FTP client, preferably TFTP, to navigate to the IP address of the SMTCP-2. To upload the file to the SMTCP-2, navigate to the /var/ directory, and upload the file *firmware.img* - IMPORTANT: the file MUST BE NAMED *firmware.img* for the upgrade to work properly. Again, the full path MUST BE /var/firmware.img. Once the file has been copied, restart (power off and power on) the SMTCP-2. Once restarted the firmware update will be installed. To verify the upgrade, see the version information listed on the Main Menu.





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