SCT-IPCX

HDMI 2.0/USB AV over IP Controller

User Manual

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Version: SCT-IPCX _2024 V1.0.0

Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till June, 2021. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment.
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

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1. Introduction

1.1. Overview

This device is used as an A/V controller for managing and configuring encoders and decoders over IP network. It includes two Ethernet ports and one RS232 port, offering integrated control features—LAN (Web UI & Telnet) and RS232. Additionally, it can work with a third-party controller to control the codecs in the system.

1.2. Features

- Features two Ethernet and one RS232 ports.
- Provides multiple methods including LAN (Web UI & Telnet), RS232 and a third-party controller to control encoders and decoders.
- Discovers encoders and decoders automatically.

1.3. Package Contents

- 1 x Controller
- 1 x 3.5mm 6-Pin Phoenix Male Connector
- 4 x Mounting Brackets
- 4 x Mounting Screws
- 1 x User Manual

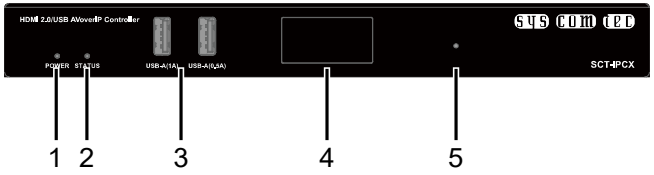
1.4. Specifications

Technical	
I/O Connections	1 x LAN1 (PoE) (10/100/1000 Mbps) 1 x LAN2 (CONTROL) (10/100/1000 Mbps) 1 x RS232
LED	1 x POWER LED 1 x STATUS LED
Button	1 x RESET Button
Control Method	LAN (Web GUI & Telnet), RS232 and a third party controller

General	
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) 10% ~ 90%, non-condensing
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C) 10% ~ 90%, non-condensing
ESD Protection	Human body model: ±8kV (air-gap discharge) / ±4kV (contact discharge)
Power Supply	DC12V 2A; PoE
Power Consumption	15.4W (max)
Product Dimension (W x H x D)	215mm x 25mm x 120.2mm / 8.46" x 0.98" x 4.73"
Net Weight	0.68kg/1.50lbs

1.5. Panel Descriptions

Front Panel



#	Name	Description
1	POWER LED	• On: The device is powered on. • Off: The device is powered off.
2	STATUS LED	• On: The device is working properly. • Off: The device is powered off or is booting.
3	USB-A	2 x USB-A ports, one of which outputs 1A current, the other outputs 0.5A current. Connect to USB 2.0 peripherals.
4	LCD Screen	Displays the LAN1 (POE) and LAN2 (CONTROL) port's IP addresses as well as firmware version.
5	RESET	When the device is powered on, use a pointed stylus to hold

#	Name	Description
	Recessed Button	down this RESET button for ten or more seconds, and then release it, the device will reboot and restore to its default settings. **Note:** When the default settings are restored, your custom data is lost. Therefore, exercise caution when using the RESET button.

Rear Panel

#	Name	Description
1	12V	Connect to a power adapter for DC 12V 2A power input.
2	LAN1 (POE)	• LAN1 (POE): Connect to a switch for communication with encoders and decoders on the same network. ➔ Default protocol: IP Address: 169.254.1.1 Subnet Mask: 255.255.0.0 Gateway: 169.254.1.254 DHCP: Off Link speed and duplex level: Auto detected • LAN2 (CONTROL): Connect to a third-party controller for controlling, configuring and managing this controller, encoders and decoders through LAN control (Web UI & Telnet). ➔ Default protocol: IP Address: 192.168.11.243 Subnet Mask: 255.255.0.0 Gateway: 192.168.11.1 DHCP: Off Link speed and duplex level: Auto detected **Note:** Only LAN1 (PoE) port supports PoE. You can connect the device to a PoE switch for power input, eliminating the need for a nearby power outlet.
3	LAN2 (CONTROL)	
4	RS-232	• DEBUG: Pins TX, RX, G are used for device troubleshooting only. RS232 parameters: Baud Rate: 115,200bps Data Bits: 8 bits Parity: None Stop Bits: 1 • CTRL: Pins G, TX and RX are used for controlling,

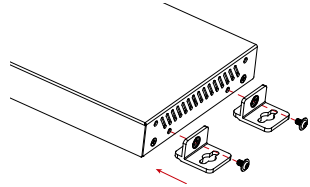
#	Name	Description
		configuring and managing the device and decoders through RS232 software or a third party controller. RS232 parameters: Baud Rate: 9 600 bps Data Bits: 8 bits Parity: None Stop Bits: 1 • 12V: Pins 12V and G are used for providing 12V DC 0.5A output. Note: Please connect correct pins for device debug and control. When this device is powered by a power adapter, if you connect control terminal to control port after first connection with the debug port, you need to reboot this device for device control process.

2. Installation

Note: Before installation, make sure all devices are disconnected from the power source.

Steps to install the device on a suitable location:

1. Attach the mounting brackets to the panels of both sides using the screws (two pieces for each side) provided in the package.



2. Install the brackets on the position as desired using screws (not included).

3. Customer Service

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. There terms and conditions may be changed without prior notice.

3.1. Warranty

The limited warranty period of the product is fixed three years.

3.2. Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized distributor only.

3.3. Warranty Exclusion:

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
  - ✓ Normal wear and tear.
  - ✓ Use of supplies or parts not meeting our specifications.
  - ✓ No certificate or invoice as the proof of warranty.
  - ✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
  - ✓ Damage caused by force majeure.
  - ✓ Servicing not authorized by distributor.
  - ✓ Any other causes which does not relate to a product defect.
- Shipping fees, installation or labor charges for installation or setup of the product.

3.4. Documentation:

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of distributor.
Remarks: Please contact your local distributor for further assistance or solutions.

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