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# User Manual
# SCT-IPCX

**HDMI 2.0/USB AV over IP Controller**

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**Version: SCT-IPCX_2026 V1.0.1**

**HDMI 2.0/USB AV over IP Controller**

# 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.

**HDMI 2.0/USB AV over IP Controller**

# Table of Contents

# 1. Introduction

## 1.1. Overview

This device functions as an A/V controller for managing and configuring encoders and decoders over an IP network. It includes two Ethernet ports and one RS-232 port, providing integrated control features via LAN (Web UI & Telnet) and RS-232. Additionally, it can be used with a third-party controller to control the codecs in the system.

## 1.2. Features

- Two Ethernet ports and one RS-232 port.
- Multiple control options: LAN (Web UI & Telnet), RS-232, and third-party controller for managing encoders and decoders.
- Automatic discovery of encoders and decoders.

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## 1.3. Package Contents

- 1 × Controller
- 1 × 3.5mm 6-pin Phoenix Male Connector
- 4 × Mounting Brackets
- 4 × Mounting Screws
- 1 × User Manual

# 1.4. Specifications

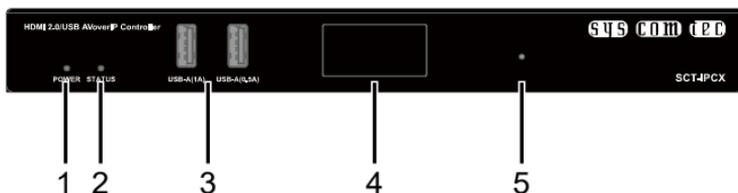| Video | |
|---|---|
| I/O Connections | 1 × LAN1 (PoE) (10/100/1000 Mbps)<br>1 × LAN2 (CONTROL) (10/100/1000 Mbps)<br>1 × RS232 |
| LED | 1 × POWER LED<br>1 × STATUS LED |
| Button | 1 × RESET Button |
| Control Method | LAN (Web GUI & Telnet), RS232, and third-party controller |

| General | |
|---|---|
| Operating Temperature/ RH | 32–113°F (0– 45°C), 10%–90% RH, non-condensing |
| Storage Temperature/ RH | -4–158°F (-20–70°C), 10%–90% RH, non-condensing |
| ESD Protection | Human body model:<br>±8kV (air-gap discharge) / ±4kV (contact discharge) |
| Power Supply | 12V DC 2A; PoE |
| Power Consumption (Max) | 15.4W |
| Dimensions (W × H × D) | 8.46" × 0.98" × 4.73" (215 mm × 25 mm × 120.2 mm) |
| Net Weight | 1.50lbs (0.68kg) |

**HDMI 2.0/USB AV over IP Controller**

# 1.5. Panel Description

<u>**Front Panel**</u>



| # | Name | Description |
|---|------|-------------|
| 1 | POWER LED | • **On**: The device is powered on.<br>• **Off**: The device is powered off. |
| 2 | STATUS LED | • **On**: The device is operating normally.<br>• **Off**: The device is powered off or booting. |
| 3 | USB-A | 2 × USB-A ports. One port provides 1A current output and the other provides 0.5A. Connect to USB 2.0 peripherals. |
| 4 | LCD Screen | Displays the IP addresses of the LAN1 (POE) and LAN2 (CONTROL) ports, as well as the firmware version. |
| 5 | RESET | When the device is powered on, press and hold this button for ten seconds or longer using a pointed object, then release it. The device will reboot and restore to its default settings.<br>**Note:** Restoring factory defaults will erase all custom settings. Use the RESET button with caution. |

<u>**Rear Panel**</u>



| # | Name | Description |
|---|------|-------------|
| 1 | 12V | Connect to the power adapter for power input. |
| 2 | LAN1 (POE) | • **LAN1 (POE)**: Connect to an Ethernet switch for |

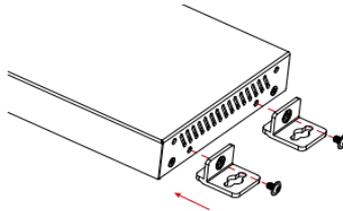| # | Name | Description |
|---|------|-------------|
| 3 | LAN2 (CONTROL) | communication with encoders and decoders on the same network.<br>➔ Default protocol:<br>IP Address: 169.254.1.1<br>Subnet Mask: 255.255.0.0<br>Gateway: 169.254.1.254<br>DHCP: Off<br>Link speed and duplex level: Auto-detected<br>• **LAN2 (CONTROL)**: Connect to a third-party controller for controlling, configuring, and managing this controller, as well as encoders and decoders, via LAN (Web UI & Telnet).<br>➔ Default protocol:<br>IP Address: 192.168.11.243<br>Subnet Mask: 255.255.0.0<br>Gateway: 192.168.11.1<br>DHCP: Off<br>Link speed and duplex level: Auto-detected<br>**Note:**<br>Only the LAN1 (PoE) port supports PoE. The device can be powered via a PoE-enabled switch, eliminating the need for a separate power adapter. |
| 4 | RS232 | • **DEBUG**: pins TX, RX, and G are used for device debugging only.<br>**RS-232 parameters**:<br>Baud Rate: 115200bps<br>Data Bits: 8<br>Parity: None<br>Stop Bits: 1<br>• **CTRL**: pins G, TX, and RX are used for controlling, configuring, and managing the device and decoders via RS-232 software or a third-party controller.<br>**RS-232 parameters**:<br>Baud Rate: 9600bps<br>Data Bits: 8<br>Parity: None<br>Stop Bits: 1<br>• **12V**: pins 12V and G provide 12V DC, 0.5A output.<br>**Note**:<br>Ensure that the correct pins are connected for debugging or control purposes. If the device is powered by a power adapter and the CTRL port is connected after first using the DEBUG port, reboot the device to enable normal control operation. |

# 2. Installation

**Note:** Before installation, ensure the device is disconnected from the power source.

To install the device on a suitable location, follow the steps below:

1. Attach the mounting brackets to both side panels of the device using the included screws (two screws per side).



2. Mount the device with the attached brackets to the desired location using user-supplied 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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