

IPTV STREAM SERVER

SFT-IPSR33



INTRODUCTION

SFT-IPSR33 is a 2RU rack-mount IPTV streamer server. It is optimal for small and medium internet service providers to initial setup in large network.

FEATURES

1. Support all kinds of IP protocol
2. Support MPTS/SPTS
3. Support UDP and HLS
4. Support Set Top Box management
5. Support Subtitles and teletext
6. Support theme customization
7. Support channel list management
8. Support channel list management

**TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER FROM THIS UNIT.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

WARNING: TO PREVENT SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



SAFETY INSTRUCTIONS

1. Read all safety and operating instructions before you operate the modulator
2. Retain all safety and operating instructions for future reference
3. Heed all warnings on the modulator and in the safety and operating instructions
4. Follow all installation, operating and use instructions.
5. Unplug the modulator from the AC power outlet before cleaning. Use only a damp cloth for cleaning the exterior of the modulator
6. Do not use accessories or attachments not recommended by us, as they may cause hazards, and will void the warranty
7. Do not operate the modulator in high-humidity areas, or expose it to water or moisture.
8. Do not place the modulator on an unstable cart, bracket or table. The modulator may fall, causing serious personal injury and damage to the modulator. Install the modulator only in a mounting rack designed for 19" rack-mounted equipment.
9. Do not block or cover slots and openings in the modulator. These are provided for ventilation and protection from overheating. Never place the modulator near or over a radiator or heat register.
10. We strongly recommend using an outlet that contains surge suppression or ground fault protection. For added protection during a lightning storm, or when the modulator is left unattended for long periods of time, unplug it from the wall outlet or PDU and disconnect the lines between the modulator and its source. This will prevent damage caused by lightning or power line surges.
11. Do not overload wall outlets or extension cords, as this can result in a risk of fire or electrical shock.
12. Never insert objects of any kind into the modulator through openings, as the objects may touch dangerous voltage and will void the warranty. Refer all servicing to authorized service personnel.
13. Unplug the modulator from the wall outlet or PDU and refer servicing to authorized service personnel whenever the following occurs:
 - ※ The power supply cord or plug is damaged
 - ※ Liquid has been spilled or objects have fallen into modulator
 - ※ The modulator has been exposed to rain or water
 - ※ The modulator has been dropped or the chassis has been damaged
 - ※ The modulator exhibits a distinct change in performance
14. When replacement parts are required, ensure that the service technician uses replacement parts specified by us. Unauthorized substitutions may damage the modulator or cause electrical shock or fire, and will void the warranty.

Unpacking and Handling

A full SKD2035 is shipped with all equipment assembled, wired, factory tested, and then packaged in an appropriate shipping container.

Mechanical Inspection

Inspect the front and rear of the equipment for shipping damage. Make sure the equipment is clean, and no wire, cable, or connectors are broken, damaged or loose.

Precautions

Avoid heat buildup

Ensure easy access to rack wiring

Facilitate servicing and maintenance

Avoid direct heating or air conditioning

Make sure rack supports are sufficiently rigid to support racks

Beware of dripping water onto equipment from leaky roofs, waveguide roof entries and cold waterpipe condensations

Damage in Shipment

Should any damage be discovered after unpacking the unit, immediately file a claim with the carrier. A full report of the damage shall be made and a copy forwarded to Seller.

INSTALLATION

Please follow the instructions below to install the SFT-IPSR33

1. Connect the power plug to the jack. Do not power up the modulator at this step.
2. Connect to the proper earthing wire
3. Connect the video source to the SFT-IPSR33
4. Connect the SFT-IPSR33 to a main switch
5. Power up the streamer

DISPLAY and BUTTONS



CONSOLE: To log into the basic system

USB: Mouse and Keyboard

PWR: Power on indicate

HDD: Hard dish running indicate

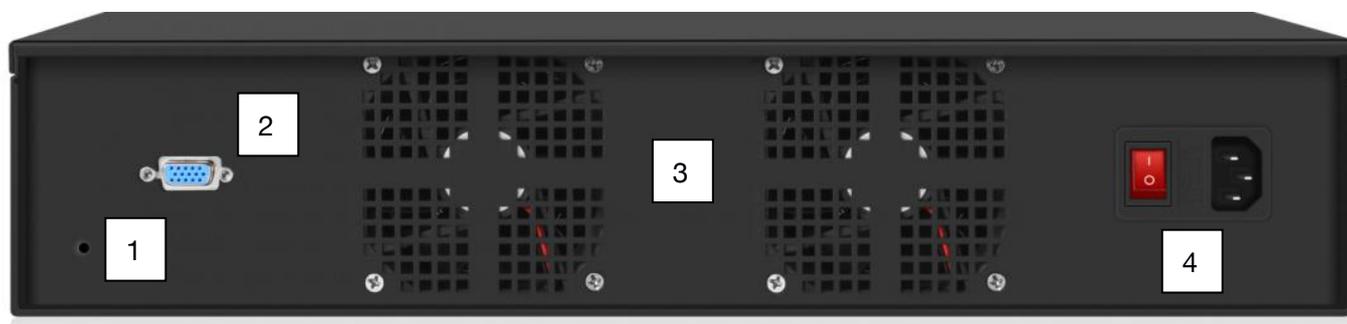
ETH1-ETH6: IPTV signal input

ETH7: IPTV signal output

NMS: Net management system port [IP:192.168.1.30; USER NAME: admin;

PASSWORD:123456]

DERAULT: Press 10s to restore to the factory setting



1. GND: For grouping

2. VGA: For system monitor

3. Fan: For heat-sinking

4. Rocker switch and power jack

WEB MANAGEMENT

- Notice: 1. Please use Google Chrome or Microsoft Edge to login the system!!!!
2. Please make sure your computer is in the same IP segment as the modulator is.

1. Connect the modulator and the computer by the RJ45 port.
2. Open your Google Chrome and input default IP address **192.168.1.30**, and press enter.
3. The default user name is **user** and the default password is **user**

The Menu

Setting Page

Number	Network Interface	Interface Type	Access Type	IP information	PPPOE Information	Action
1	eth1	Input	STATIC IP	IP Address: 192.168.10.1	Username: -	Edit
2	eth2	Input	STATIC IP	IP Address: -	Username: -	Edit
3	eth3	Input	STATIC IP	IP Address: -	Username: -	Edit
4	eth4	Input	STATIC IP	IP Address: -	Username: -	Edit
5	eth5	Input	STATIC IP	IP Address: -	Username: -	Edit
6	eth6	Input	STATIC IP	IP Address: -	Username: -	Edit
7	eth7	Output	STATIC IP	IP Address: 192.168.188.10	Username: -	Edit
8	eth8	Manager	STATIC IP	IP Address: 192.168.1.12	Username: -	Edit

1. Network Configuration

1.1 Network settings

Number	Network Interface	Interface Type	Access Type	IP Information	PPPOE Information	Action
1	eth1	Input	STATIC IP	IP Address: 192.168.10.1	Username: -	Edit
2	eth2	Input	STATIC IP	IP Address: -	Username: -	Edit
3	eth3	Input	STATIC IP	IP Address: -	Username: -	Edit
4	eth4	Input	STATIC IP	IP Address: -	Username: -	Edit
5	eth5	Input	STATIC IP	IP Address: -	Username: -	Edit
6	eth6	Input	STATIC IP	IP Address: -	Username: -	Edit
7	eth7	Output	STATIC IP	IP Address: 192.168.188.10	Username: -	Edit
8	eth8	Manager	STATIC IP	IP Address: 192.168.1.12	Username: -	Edit

In this page, you can set up the ETH1~ETH7 port

Network Interface eth1

Interface Type

Access Type

IP Address

Subnet Mask

Default Gateway

Primary DNS

Secondary DNS

MAC Clone

Interface Type: Select from INPUT or OUTPUT type
 NOTICE: The ETH1 to ETH7 can be set as input or output.

Access Type: DHCP, STATIC IP AND PPPOE
 In DHCP mode, the streamer will get the IP address automatically. In Static IP mode, the streamer will inquiry you to input the IP address. In PPPOE mode, please input the PPPOE username and password.

1.2 Network Status

Network Interface	Receiving Traffic(MBytes)	Receiving Bit Rate(Mbps)	Sending Traffic(MBytes)	Sending Bit Rate(Mbps)	Link Status	IP Address/Subnet Mask
eth1	21200246.166	402.117	11.756	0.000		192.168.10.1/255.255.255.0
eth2	0.000	0.000	0.000	0.000		/
eth3	0.000	0.000	0.000	0.000		/
eth4	0.000	0.000	0.000	0.000		/
eth5	0.000	0.000	0.000	0.000		/
eth6	0.000	0.000	0.000	0.000		/
eth7	757.454	0.076	214095.859	8.994		192.168.188.10/255.255.255.0
eth8	1282.217	0.034	69.228	0.004		192.168.1.12/255.255.255.0

From this page, you can check out the IP stream working status.

1.3 Network Group

IP Address

Subnet Mask

Default Gateway

Primary DNS

Multi-network eth7

Switch

In this page, you can set up the IP information in group.

1.4 Bandwidth Limitations

We offer this to limit the bandwidth for each port for the better performance.

2. Live TV

There are three menus here. If this is the first time to set up the streamer, you should start with New Channel.

2.1 Channel List

<input type="checkbox"/>	Number	Input	Input Bit Rate(Mbps)	Program NUM	Program Name	Output	Output Address	State	Buffer Time(s)	Enable	UDP	HLS	Action
<input type="checkbox"/>	1	eth1	1.685	308	INFO TV	eth7	239.1.1.100:50000	●	4.97	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Details Edit
<input type="checkbox"/>	2	eth1	1.622	101	PUJAR TV	eth7	239.1.1.101:50000	●	4.99	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Details Edit
<input type="checkbox"/>	3	eth1	2.870	302	My TV	eth7	239.1.1.102:50000	●	5.02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Details Edit
<input type="checkbox"/>	4		8.641	1	本地节目	eth7	239.1.1.103:50000	●	0.00	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Details Edit

In this page, you can check, edit and delete all the channels

Delete: Delete the selected channel

Square box: Select all. And then click the Delete to delete all.

Enable: To enable the signal output

UDP: Output as UDP

HLS: Output as HLS

Details: See the channel information

Details

×

Input Address		
udp://239.5.5.100:50000		
M3U8 Address		
:8060/hls/1BEAE300/308/ts.m3u8		
Output Address	Port	
239.1.1.100	50000	
SRC Program NO.	SRC Pmt PID	SRC Pcr PID
308	83	516
DST Program NO.	DST Pmt PID	DST Pcr PID
308	83	516
Program Provider	Buffer Time(s)	BPS
INFO TV	4.97	1.685

[Close](#)

Edit: To program the channel

Input	<input type="text" value="eth1"/>	Output	<input type="text" value="eth7"/>
Program Name	<input type="text" value="My TV"/>	Program Provider	<input type="text" value="My TV"/>
DIP	<input type="text" value="239.1.1.102"/>	DPORT	<input type="text" value="50000"/>
SRC Program NO.	<input type="text" value="302"/>	DST Program NO.	<input type="text" value="302"/>
SRC Pmt PID	<input type="text" value="624"/>	DST Pmt PID	<input type="text" value="624"/>
SRC Pcr PID	<input type="text" value="653"/>	DST Pcr PID	<input type="text" value="653"/>

Number	Number	SRC PID	Type	DST PID
1	<input checked="" type="checkbox"/>	622	Mpeg-1 Audio	<input type="text" value="622"/>
2	<input checked="" type="checkbox"/>	621	AVC(H264)	<input type="text" value="621"/>

Input: Select the input port

Program Name: Enter the name you like

DIP: The destination IP address

SRC Program No.: The source program number

SRC Pmt PID: The source PMT PID

SRC Pcr PID: The source PCR PID

Output: Select the output port

Program Provider: Enter the name you like

DPORT: The destination port

DST Program No.: The destination program number

DST Pmt PID: The destination PMT PID

DST Pcr PID: The destination PCR PID

Number	Number	SRC PID	Type	DST PID
1	<input checked="" type="checkbox"/>	622	Mpeg-1 Audio	<input type="text" value="622"/>
2	<input checked="" type="checkbox"/>	621	AVC(H264)	<input type="text" value="621"/>

This is the audio and video destination PID

2.2 New Channel

Program Analysis

Type of program analysis:

Network interface:

IP Address:

Use '!' to separate different uris

Number	Program NUM	BPS(Mbps)	Program Name	Program Provider	Action
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To sort out the channel from the IP SOURCE, we should get all the input channel and then select the channels we want.

Program Analysis

Type of program analysis: Manual Input

Type of program analysis

Network Interface

IP Address

Use ',' to separate different urls

Manual Input:

The streamer will read the data from the port you select and the IP address you input.

Type of program analysis

Network Interface

Device Access

The streamer will read the data automatically.

Type of program analysis

Network Interface

File

Import File:

This function is to save your work when you have two same system to install. You can import the channels in Channel List

Type of program analysis

Network Interface

Get From Database:

This function is used in China only

Program Forward

The screenshot shows the 'Program Forward' interface. At the top, there are six network status gauges for eth1 through eth6. eth1 shows 376, while eth2 through eth6 show 0. Below the gauges is a table with columns: Number, Input, BPS, Enable, SRC Program NO., SRC Pmt PID, SRC Pcr PID, Program Name, Program Provider, DST Program NO., DST Pmt PID, DST Pcr PID, DIP, DPORT, Output, and Action. The first row contains the following data: 1, eth1, 1.681, checked, 308, 83, 516, INFO TV, INFO TV, 308, 83, 516, 239.1.1.100, 50000, eth7, and a 'Source Program' button.

Number	Input	BPS	Enable	SRC Program NO.	SRC Pmt PID	SRC Pcr PID	Program Name	Program Provider	DST Program NO.	DST Pmt PID	DST Pcr PID	DIP	DPORT	Output	Action
1	eth1	1.681	<input checked="" type="checkbox"/>	308	83	516	INFO TV	INFO TV	308	83	516	239.1.1.100	50000	eth7	<input type="button" value="Source Program"/>

After reading the channels, the found channels will be listed here.

Press SOURCE PROGRAM and find Add to add the selected channel to the channel list.

Number	Enable	SRC PID	Type	DST PID
1	<input checked="" type="checkbox"/>	82	Mpeg-1 Audio	<input type="text" value="82"/>
2	<input checked="" type="checkbox"/>	84	AVC(H264)	<input type="text" value="84"/>

2.3 Local Channel

Total Space : 52822 MB Used : 41541 MB

Number	Channel Name	Action
<input type="checkbox"/>	1	本地节目 <input type="button" value="Enter"/>

Local channel is to provide extra programs. We can upload the video from the others place and make it as a channel.

Press New Channel> Input the channel name> Click Upload Video>the streamer will list out the video in the dish. Select the videos and click Upload.

Total Space : 52822 MB Used : 41540 MB

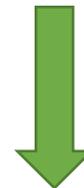
Number	Channel Name	Action
<input type="checkbox"/>	1	本地节目 <input type="button" value="Enter"/>
<input type="checkbox"/>	2	KEN TV <input type="button" value="Enter"/>

STB Manager

Batch Wifi terminal amount:4,online amount:1

Number	Room Number	Online	Device Number	Group	WiFi	Action
<input type="checkbox"/>	1	123	78.C2.C6.9F:19.04	None	12345678	<input type="button" value="Edit"/>
<input type="checkbox"/>	2	124	78.C2.C6.9F:19.07	None	12345678	<input type="button" value="Edit"/>
<input type="checkbox"/>	3	125	12.4D.7C.3B.BE:70	None	12345678	<input type="button" value="Edit"/>
<input checked="" type="checkbox"/>	4	126	78.C2.C6.9F:19.00	None	12345678	<input type="button" value="Edit"/>

Number	Group Name	Action
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Here we can manage the set-top boxes.

Add: add a new set-top box

Delete: delete one or selected channels

Batch wifi: set the wifi password

How to add a new STB?

1. Click Add to add a new STB

2. Input Room number and Device number, then Save

In this part, we can sort out the set-top box in group.

Room Number	<input type="text" value="126"/>
Device Number	<input type="text" value="78.C2.C6.9F:19.00"/>
Wifi Password	<input type="text"/>
Group	<input type="text" value="None"/>
<input type="button" value="Close"/> <input type="button" value="Save"/>	

STB Upgrade

Here we can upgrade all the STB software.

APK upload Version: SOUKA_1.apk

Click the 'Browse' button, select the upgraded file, and then click the 'Upload' button to upload the set-top box APK program. The set-top box will automatically update the latest programs.

System Manager

1. Device Info

Device ID

Connect Switch

Server IP

Correcting Time

Device Time

Device ID: The unique ID for this device
 Connect Switch: Yes
 Server IP: For SOUKA CLOUD
 Correcting Time: YES to enable the function
 Device Time: input the right time for this device

2. System Configuration

System Upgrade Device Type:SKD_3208V5 System Version:C:2019-10-25 19:50:19 Software Version:V1.12_2019-09-20 16:11:11

Click the 'Browse' button, select the upgraded file, and then click the 'Upgrade' button to upgrade the device to the latest program.After successful upgrade, the device will automatically restart.

Select file...

System Reboot

Click the 'Reboot' button and the system will reboot.

System Shutdown

Click the 'Shutdown' button and the system will shut down.

Advanced Setting

Click the button and input the password to enter.

We offer System Upgrade/Reboot and shutdown here to manage the system.

3. Password Change

Current Password

New Password

Confirm Password