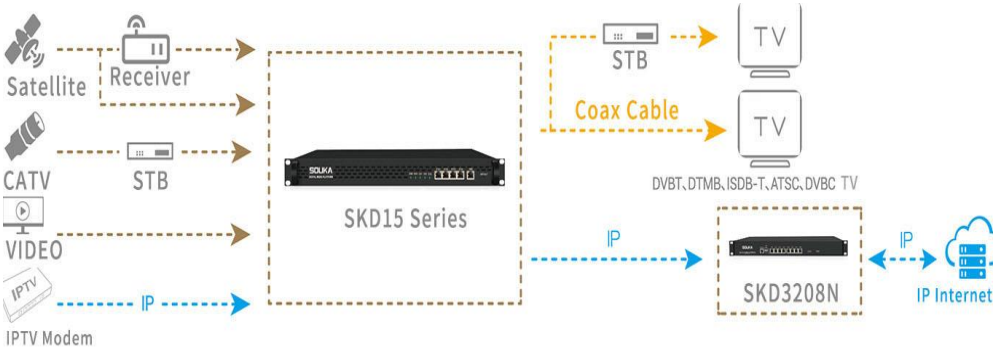
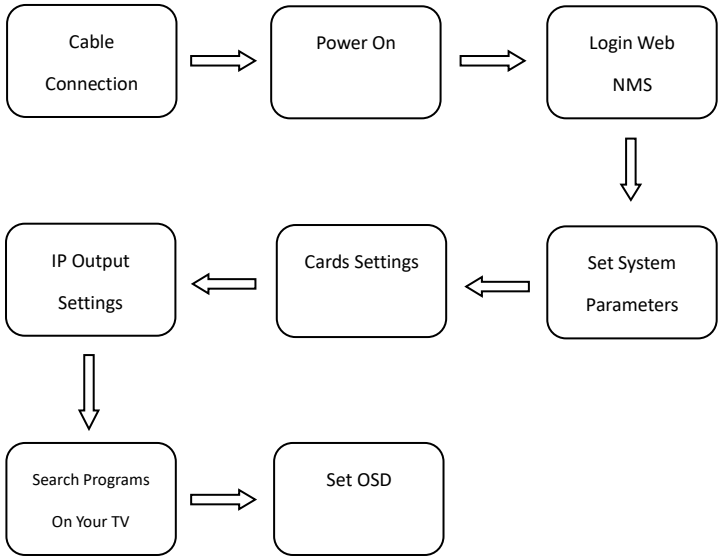
Digital Headend System Quick Installation Guide

System Diagram

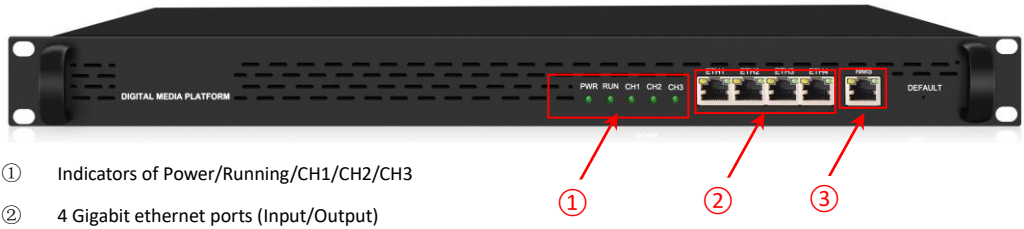


Installation Map



Step 1, Cable Connection

Front panel

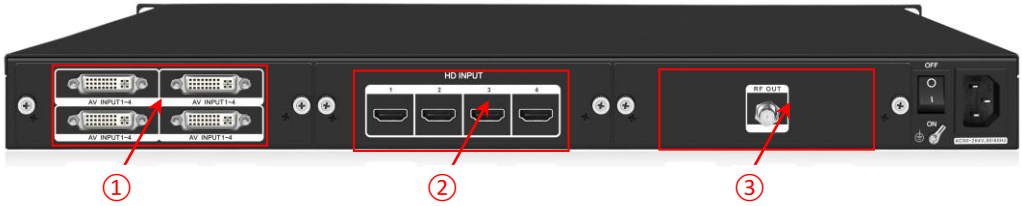


① Indicators of Power/Running/CH1/CH2/CH3

② 4 Gigabit ethernet ports (Input/Output)

③ 1 Network management port

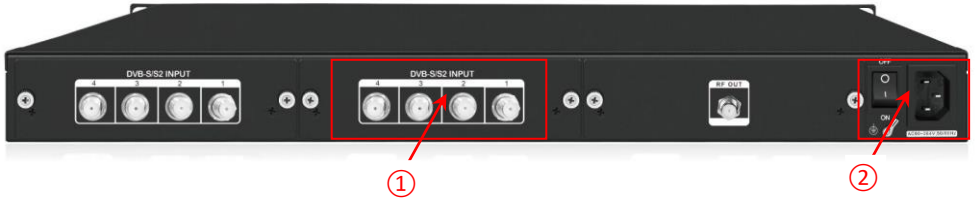
Rear panel



① 16 Channels CVBS signal input

② 4 HDMI input

③ 1 Combined digital signal output



① 4 Satellite signal input

② Power supply socket and Switch

Input Signal source connection: Connect ethernet cables, HDMI cables, coaxial cables or AVI cables to the respective input ports accordingly.

Internal network management: 1) Connect the NMS network port to the PC network port with a network cable;

2) The NMS network port is connected to the switch network port, and the PC network port is

connected to the switch;

External network management: 1) The WAN port of the router is connected to the modem, that is the external network;

2) The switch network port is connected to any network port of the router which is not WAN;

3) The LAN port of the switch is connected to the NMS port and PC network port of the device;

IP output:

The IP output is 1000M bandwidth. If the terminal equipment receiving standard is 100M, the gigabit network cable must be transitioned to 100M through the gigabit adaptive switch, and then connected to the terminal device through the 100M/Gigabit network cable.

RF output:

Connect the coaxial cable to the RF Out port.

Step 2, Power On

Step 3, Login Web NMS 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 NMS 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***

Once you successfully login, you can have a quick overview on the device about the hardware and software version, the running status.

Serial Number: The device's unique ID

Device Name: This modulator's name, which you can modify it in the Basic Parameters

Hardware Version and Software Version: When you need to upgrade the software, these two versions are required to be provided.

Run Time: The device's running time

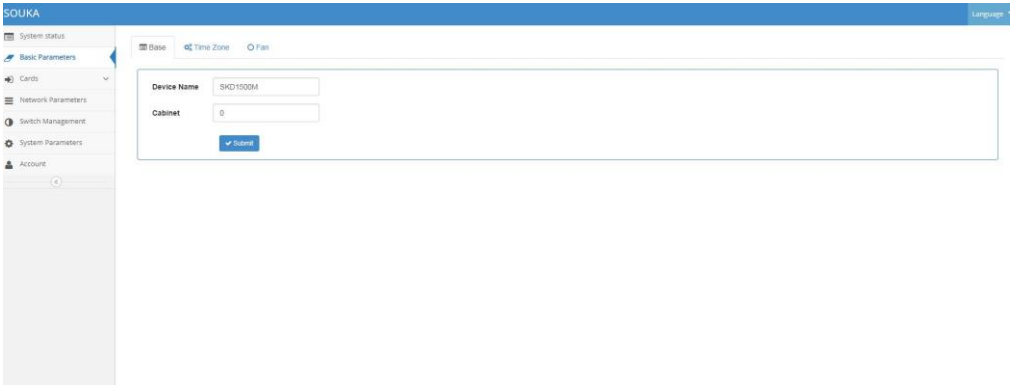
Current and Voltage: To display the current and voltage

Fan 1, Fan 2 and Fan3: To display the fan's speed.

Temperature: The device's inner temperature

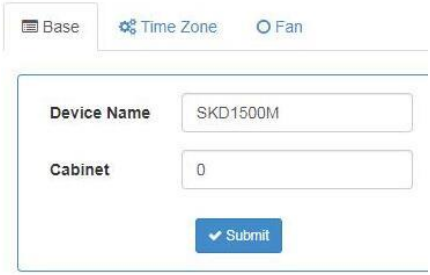
Step 4, Set System Parameters

4.1 Basic Parameters



There are three sheets in this page: Base, Time and Fan

Base table



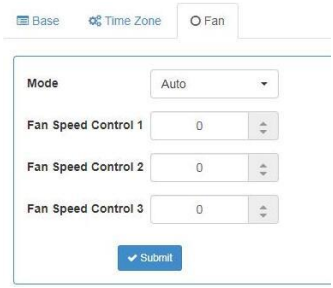
Device Name: Name your device
NIT Version:

Time table

In Time table, you can change the time zone, date and Time

1. Changing the time zone will change the time automatically.
2. You can set the time manually by the time box.
3. **Clear**: Reset the time display
4. **Today**: The modulator will read the time from your computer
5. **OK**: Save and exit

Fan table



Mode: User can select Auto or Manual here.

Auto: All the five fans will work according to the software and the inner temperature

Manual: You can take full control of the fans. When you have one card, you might turn on one fan to work according to the temperature.

NIT Version: Input the NIT version according to your input programs

4.2 Network Parameter

s

DHCP: If you need to put the modulator under a router with DHCP on, you might switch ON.

IP Address: The default IP is 192.168.1.30. And it is adaptable.

Subnet Mask: The default one is 255.255.255.0. And it is adaptable.

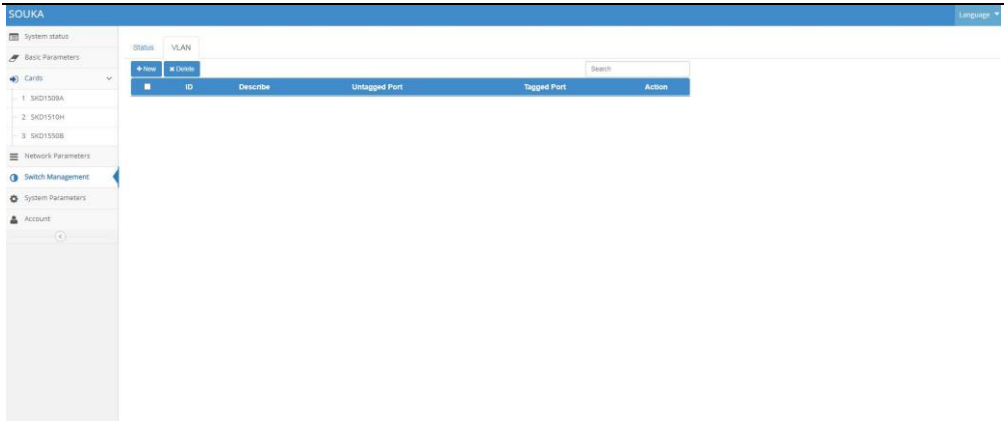
Default Gateway: Setting the gateway.

Primary DNS: The default one is 8.8.8.8 And it is adaptable.

Secondary DNS: The default one is 202.96.134.133 And it is adaptable.

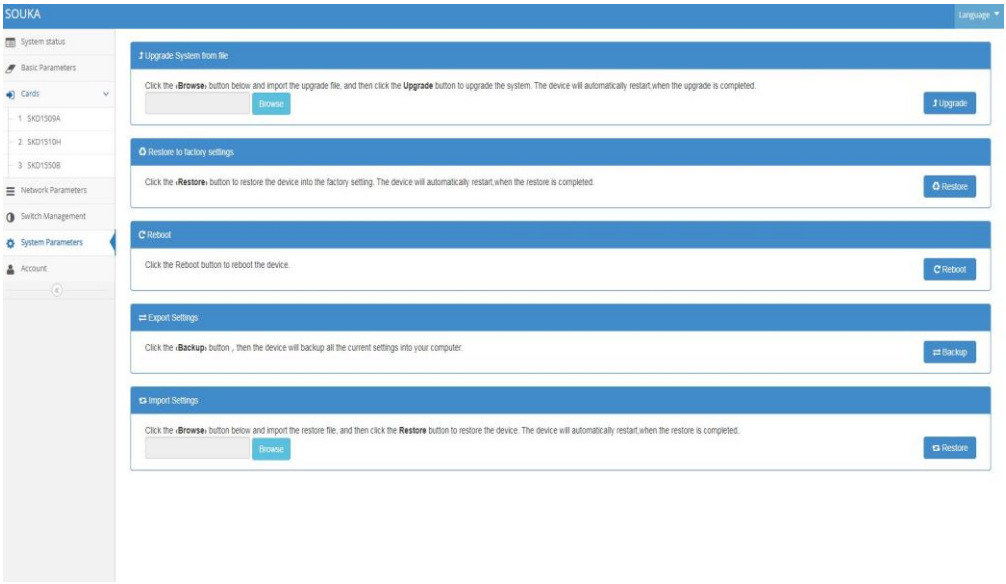
MAC: We suggest users don't change it

4.3 Switch Management

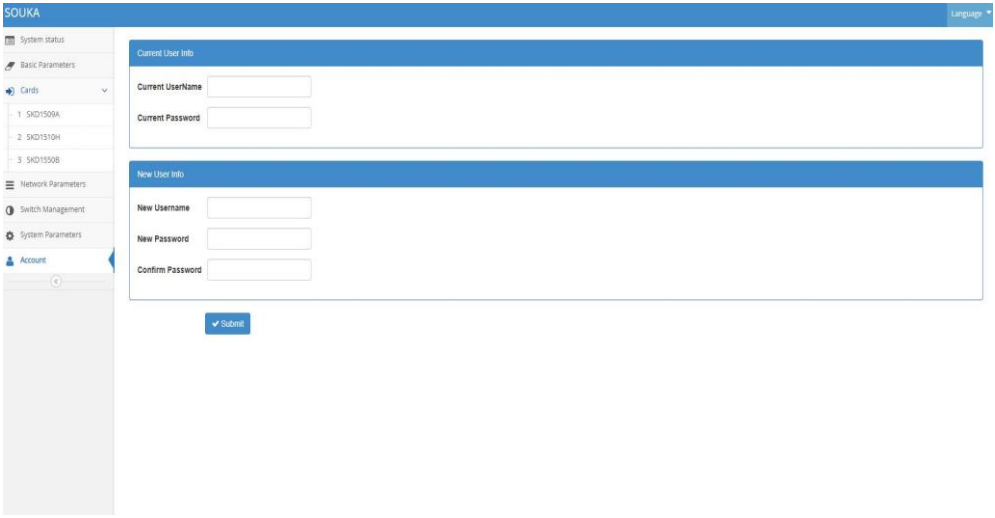


Here you can manage 3 cards and 4 gigabit ethernet ports(input/output).

4.4 System Parameters



4.5 Account



In order to change the user name and password, you need to input the current user name and password.

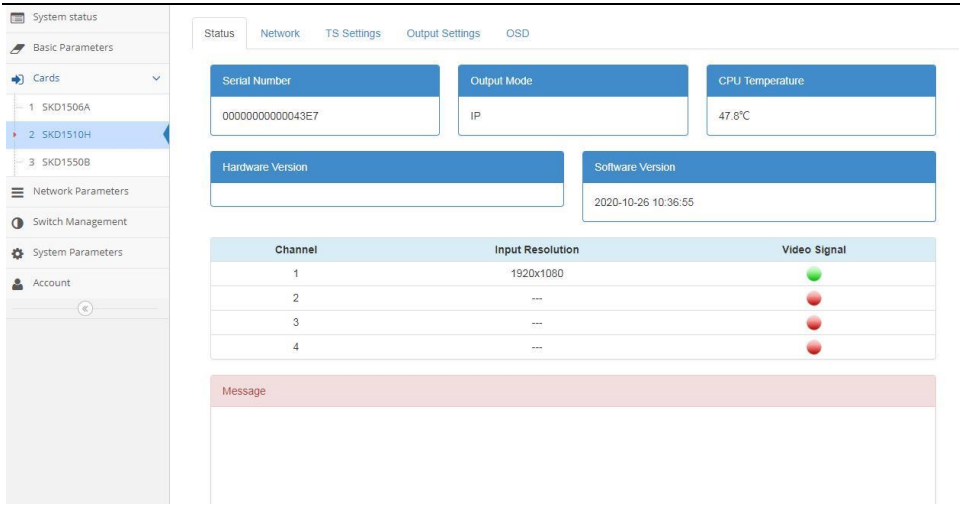
If you forget your new user name or new password, you can use the reset button in the front panel to restore.

Step 5, Cards Settings

The cards will be listed on the left of table. To set up the cards, please click the card's name

SKD1510H

Status:

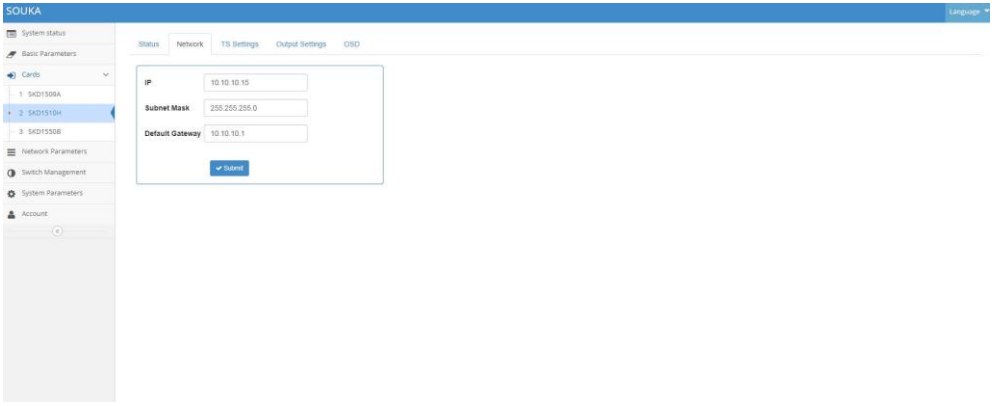


CPU Temperature: Display the temperature of CPU

Input Resolution: Display input resolution

Video Signal: You can check the working status of 4 input HDMI ports.

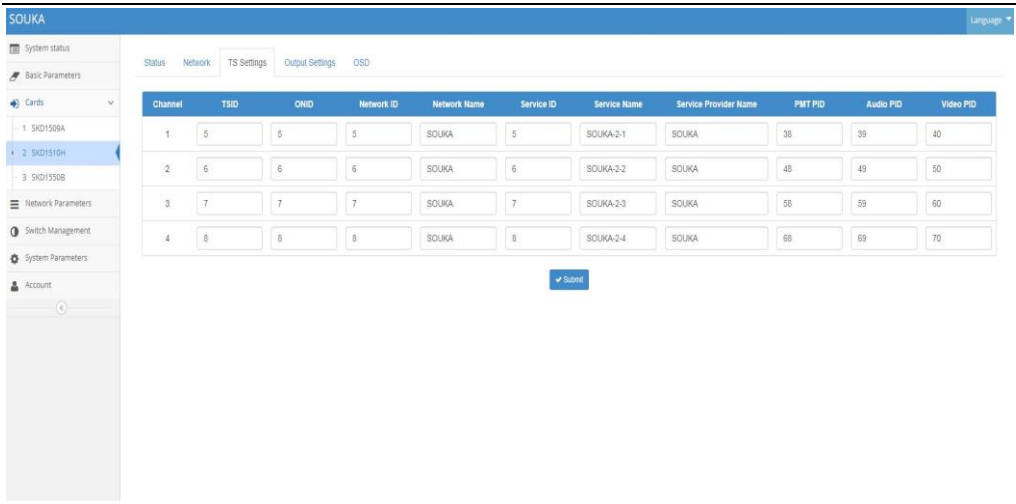
Network:



Subnet Mask: The default one is 255.255.255.0. And it is adaptable

Default Gateway: Setting the gateway

TS Settings:



TSID: Transport stream ID, 1~65534

ONID: Original network ID, 1~65534

Network ID: Network ID, 1~ 65534

Network Name: Input your network name

Service ID: 1-65534

Service Name: Program name

Service Provider Name: Program provider

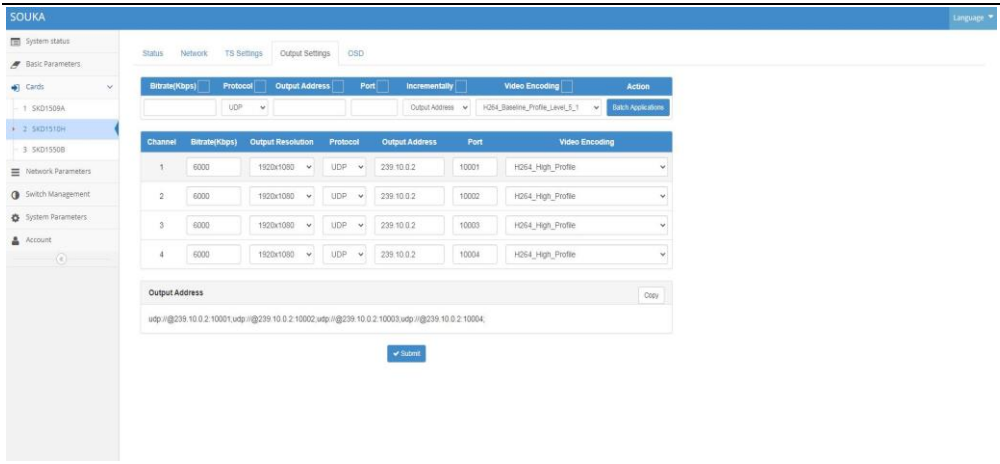
PMT PID: 32 - 8190

Audio PID: 32 - 8190

Video PID: 32 - 8190

NOTICE: The system will generate the IDs according to the slot number. If you have two devices, please change one of them manually.

Output Settings:



Protocol: Select UDP/RTP

Incrementally: Select by output address or port

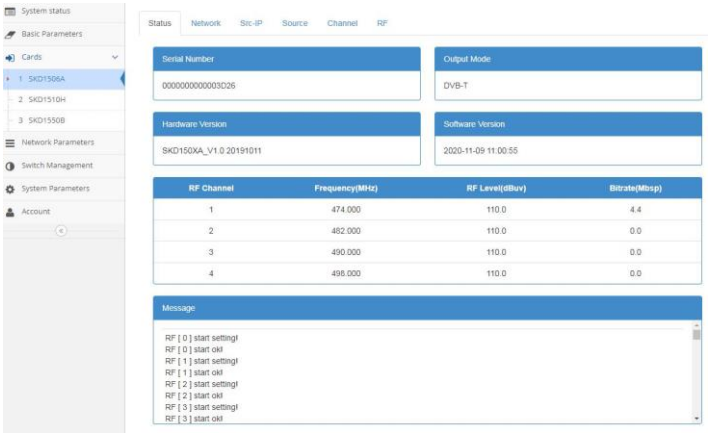
Video Encoding: Select the format of video encoding

Output Resolution: Display output resolution

Copy the output address for next step “Src-IP” settings.

SKD1506A

Status:



Serial Number: The cards unique ID

Output Mode: It displays ATSC or J.83B, J.83A, DVBT, DVBC or IP, which you can select in Settings sheet

Hardware Version and Software Version: When you need to upgrade the software, these two versions are required to be

provided.

RF Channel: 4CHS RF output

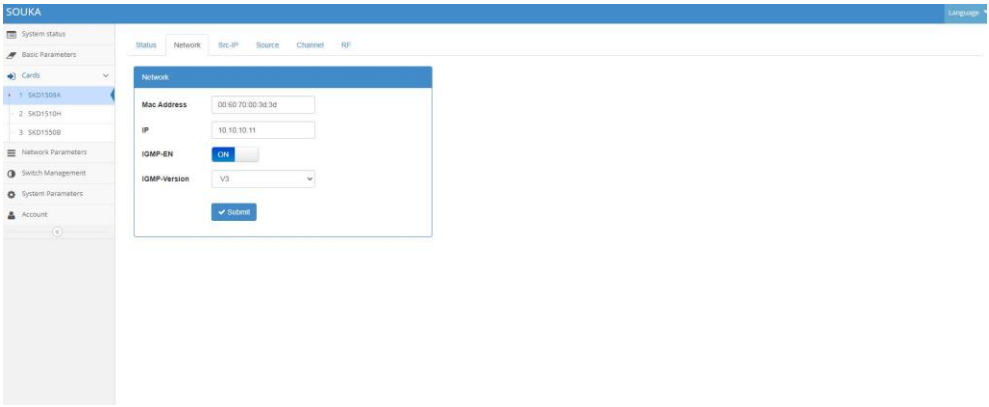
Frequency: Set the output frequency. Frequency range 100 to 999.999MHz

RF Level: The RF output level of four channels

Bitrate: Display the data of Bitrate

Message: The warning message will display here

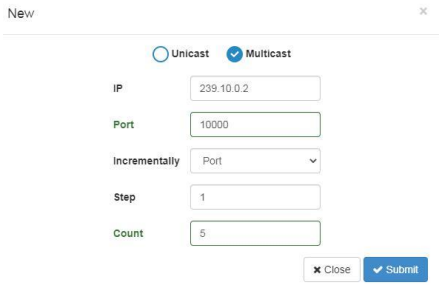
Network:



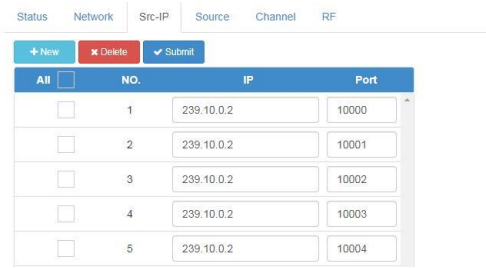
IGMP-EN: Select On/Off

IGMP-Version: the version of Internet Group Management Protocol

Src-IP:



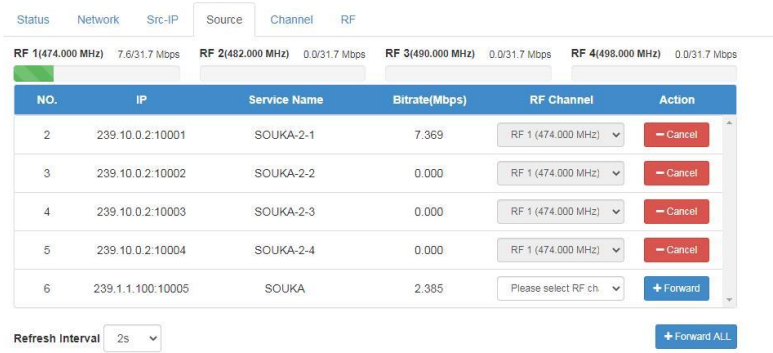
Click “+New” to popup a window as above, input the program channels IP address which copied before, then select incrementally by “Port”, input 1 for Step and programs number for Count. After finish, click “Submit” to the table as below：



Tick the program channels you want, then click “Submit” to next step.

Src-IP: IP address of the program source

Source:



After successfully loading the programs, you can get a list here, click “+Forward All” to forward all channels.

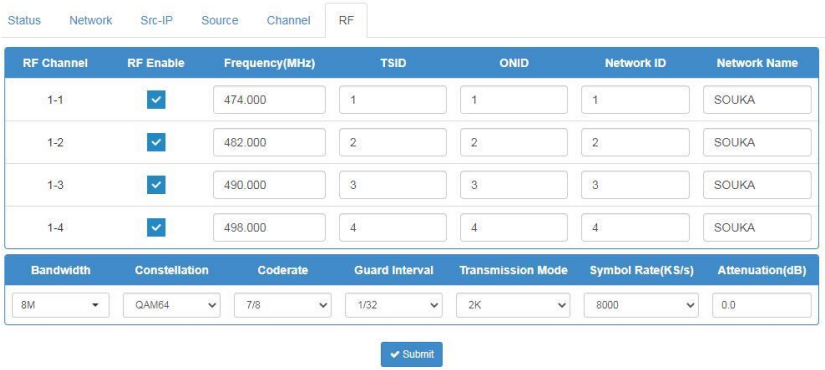
Service Name: Program name

RF Channel: Selected RF Channel

Channel:

Select the program channels you want, then click “submit”.

RF:



RF Enable: Enable RF or not

TSID: Transport stream ID, 1~65534

Modulation: Switch from ATSC (AIR) and J.83B (QAM). The modulator will reboot to active the modulation standard

Bandwidth: Select the bandwidth

Constellation: ATSC MODE—8VSB; QAM MODE: 64QAM or 256QAM

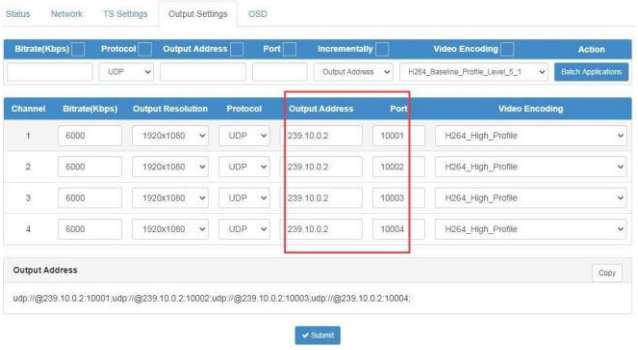
Symbol Rate: The software will set the best symbol rate according to the input stream

Attenuation: Output level adjustment

After all parameters set, click "Submit" to finish the settings. Then you can check the HD TV programs on your TV now.

Step 6, IP Output Settings.

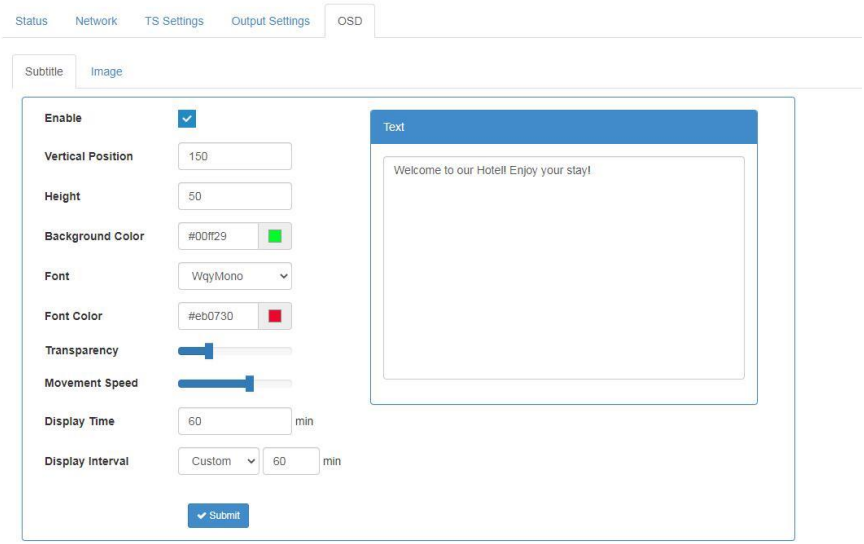
As the "Output Settings" table of SKD1510 below, you should set the output address and port of each program channel. Once you connect with other devices with ethernet cable, you need these for input signal source settings.



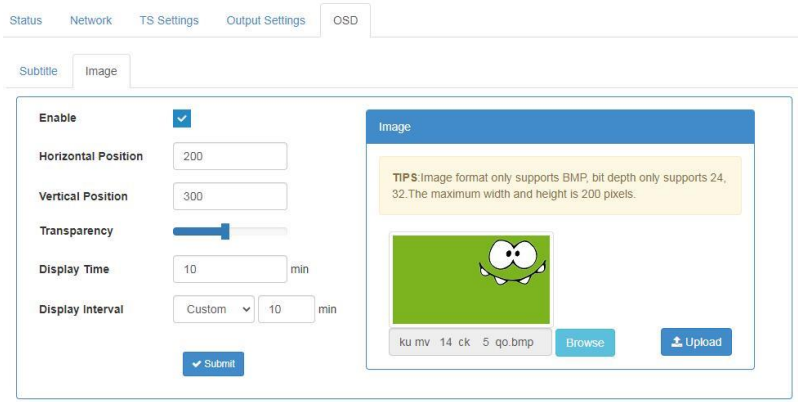
Step 7, Search the programs on your TV.

Step 8, Set OSD.

Find OSD settings table as below:



You can edit your text for emergency inter cut or promotional advertisements.



You can edit your image for emergency inter cut or promotional advertisements

PROMA® HD

Thank you for using our product!