

Shenzhen Dingshengwei Electronic Co.,ltd

SK-2036C English Manual



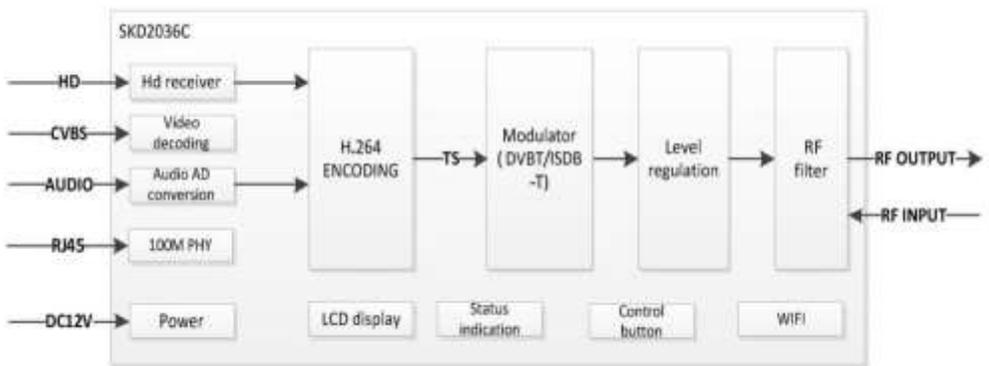
1.Introduce :

SKD 2036C is 1CH HDMI &CVBS and 1RF output Digital encoder modulator that was self-dependent innovated and developed by Shenzhen DingShengWei Electronics Co., Ltd. The device supports high-definition (HDMI)

signal input and SDTV CVBS signal input encoded (H.264 standard) and modulation (DVB-T / ISDB) and then RF output. RF output frequency range is 100 ~ 999.9Mhz. Its signal source can be satellite receiver, CCTV camera, Blu-ray disc player and antenna.

The device can be applied to public places such as the subway, market hall, theaters, hotels, resorts and other advertising systems. It can also be used to monitor, training and educate companies, schools, hospitals and etc. In addition, high-definition sports and VIP entertainment TV channels are available at bars and other places.

2. Structure diagram



3. Features and applications:

(1)Feature:

- (a.)support H.264 encoding;
- (b)support (1 HDMI and CVBS interface) and 1 RF input and 1RF output;
- (c)support DVB-T /ISDB-T, two modulation standard optional; (d)

Agile frequency design, can set any frequency in the range.

- (e) without complex system settings, just adjust the frequency to the desired frequency, Simplify the debugging difficulty of the system.

- (f) built-in WIFI function, support for mobile phone connection equipment to view and set various parameters;
 (g) operating interface: phone APP, PC network management and panel buttons.

(2)The applied range:

- (h)cable digital TV front-end
 (I)satellite digital TV
 (J) terrestrial digital TV
 (K)image monitoring
 (L)distance learning

4.SPECIFICATION

HDMI		
VIDEO	Encoding	H.264
	Input Resolution	1080P@60 MAX
	Bit Rate	1~ 18 Mbps
AUDIO	Encoding	MPEG Layer 2
	Sample Rate	48KHz
	Bit Rate	384kbps
YPbPr		
VIDEO	Encoding	H.264
	Input Resolution	720*480i@60; 720*576i@50
	Bit Rate	1~ 18 Mbps
AUDIO	Encoding	MPEG Layer 2
	Sample Rate	48KHz
	Bit Rate	384kbps
MODULATION		

DVB-T	Standard	DVB-T COFDM
	Bandwidth	6 / 7 / 8 MHz
	Constellation	QPSK, 16QAM, 64QAM
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
	Guard Interval	1/32, 1/16, 1/8, 1/4
	FFT	8K
	MER	≥ 32 dB
ISDB-T	Standard	ARIB STB-B31
	Bandwidth	6MHz
	Constellation	DQPSK, QPSK, 16QAM, 64QAM
	Guard Interval	1/32, 1/16, 1/8, 1/4
	FFT	2K, 4K, 8K
	MER	≥ 42 dB
RF Output		
	Output Frequency	100 ~ 999.9 MHz
	Output Level	≥ 90 dB μ V (0 ~ 31.5dB adjust)
	Out-of-band Rejection	≥ 60 dB
System		
Bonus Inputs	ANT Insertion Loss	4 dB
	TF Slot	Support up to 128G
Control	TFT display with control keys	
	NMW for computer	
	Android and IOS APP	

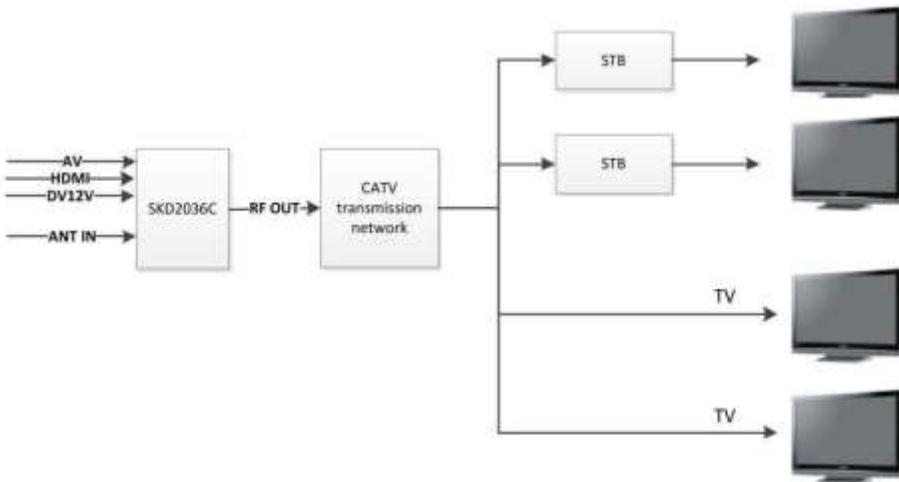
Language	English
Power	DC12V
Weight	2KGS (20x11x6.2cm)

5. Front Panel instruction



- ① TFT color screen display: display product status, parameter settings;
- ② button: up, down, left, right, return, confirm key: pass the key to set the parameters
- ③ Indicator: PWR light means power is normal, CVBS light means current AV signal input is normal, HD light shows HDMI signal is normal;
- ④ RF OUT: RF modulation signal and antenna signal mixed output; ⑤ ANT IN: antenna signal input.
- ⑥ NMS: Network Port RJ45
- ⑦ VIDEO IN: CVBS signal input;
- ⑧ AUDIO IN: left and right channel audio signal input;
- ⑨ HDMI: HDMI video signal input;
- ⑩ DC12VIN: 12V1A DC voltage input;
- ⑪ GND: Ground

6. the system connection diagram



7. Resolution:

Please only set the resolution in below listing, our machines only support below input resolution. it can auto detect the supporting resolution. It doesn't support 640X480.

Mode	Ration	Frame	Resolution
480p60	4:3	59,60	720x480
480p60	16:9	59,60	720x480
480i60	4:3	59,60	720x480
480i60	16:9	59,60	720x480
576p50	4:3	50	720x576
576p50	16:9	50	720x576
576i50	4:3	50	720x576
576i50	16:9	50	720x576
720p50	16:9	60	1280x720
720p60	16:9	59,60	1280x720
1080p50	16:9	50	1920x1080
1080p60	16:9	59,60	1920x1080
1080i50	16:9	50	1920x1080
1080i50	16:9	50	1920x1080
1080i60	16:9	59,60	1920x1080

8. Bit rate

The Bit rate is 1-18Mbps, as the max 18.000Mbps is the best.



A screenshot of a blue menu titled "SKD2036C" showing signal information. The menu is divided into two columns. The left column lists the parameters, and the right column shows the current values. At the bottom, the "SOUKA" logo is visible.

SKD2036C	
Signal Source:	HDMI
Resolution:	UNKNOWN
Format:	DVB_T
Bitrate:	16.000 Mbps
RF Level:	100.0 dBuV
Alarm:	Input video error

10. Fox an example, the setting in Croatia

if you can't search your local place or country from our machines, even can't catch the frequency or bandwidth, please set the frequency and bandwidth according to your set up box.



A screenshot of a blue menu titled "DVB-T Setting" showing configuration parameters. The menu is divided into two columns. The left column lists the parameters, and the right column shows the current values. At the bottom, the "SOUKA" logo is visible.

DVB-T Setting	
Country/Region:	Croatia
Channel:	CH-05
Frequency:	474.000 MHz
Bandwidth:	8 M
Transmission:	8 K
Constellation:	QAM64

9. How to use

From the front button

There are buttons for Enter, ESC, left, right, up and down button for setting the parameter.

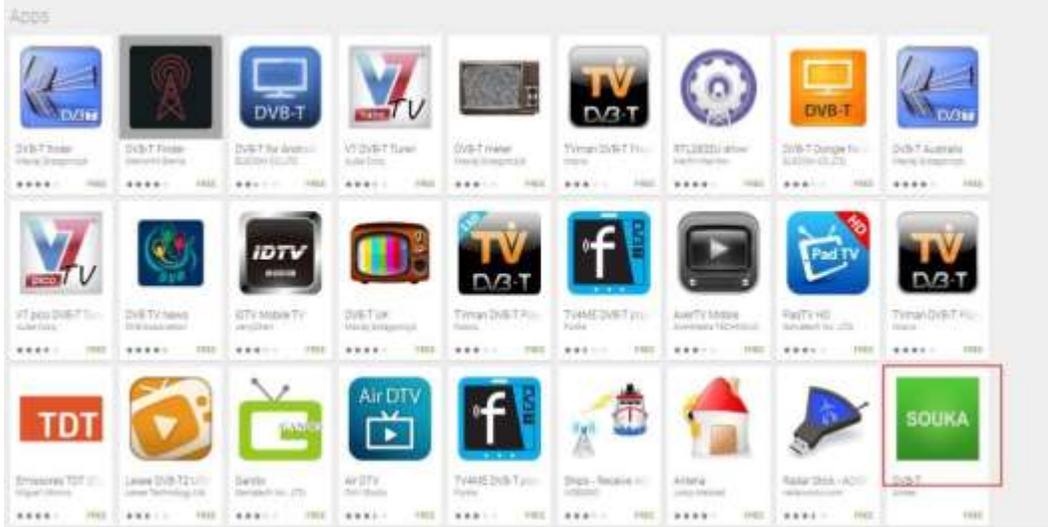
Mobile app way:

One set= 1pcs SK-2036C + 1pc power plug

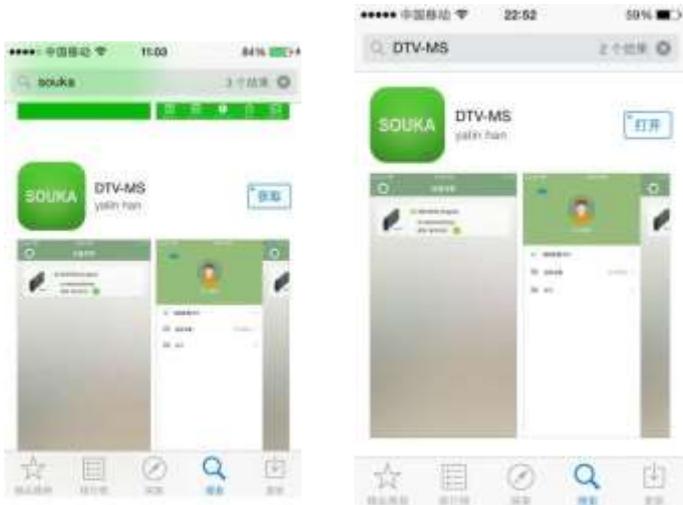
- (1. when you open the parcel, please take out the power plug that I gave you with the machine.
- (2. connect power
- (3. Open machine's wifi and make the wifi"enable"



- (4. Open the wifi from your mobile and search this machine wifi"SOUKA_010F", It has the name on LCD screen.
- (5. Enter the password"12345678' into mobile, make the machine and mobile connect.
- (6. Please go "google play" to Search"DVB-T" as below , at the bottom of the right



(7.If it is iPhone,Please go "App store" to search "SOUKA " or "DTV-MS" and then down load it, after you down load this software, you can use mobile to operate the machine.



(8. Please click this download software and enter the ID name and Password:

Account: user; Password: user



(9. After you enter the password and will enter below interface, In this way, you can use mobile to operate the machine.

500k



Login Now



-  Clear Config Files >
-  Language English >
-  About >

(10.if you open the DHCP, Automatically obtain an IP address, it be used for large modulators connect. (11.

Go "network parameter"---"LAN Setting"--make the DHCP"ON"



If you don't open DHCP function, it will be machine IP address in below, this way is used for one machine to computer



PC way to operate modulator:

Tools: computer, network cable

1. Connect Power, machine need to connect the network port of the computer
2. After the device starts normally, open the browser, enter 192.168.1.10
3. ID is "user" and password is "user",

4. click Login

5. If the connection is not available, please check whether the PC and the device are on the same network segment. . If not, please do the advanced TCP / IP on the PC

Add new settings in the network segment. . Such as: PC's IP address is 192.168.1.10, can be changed to 192.168.1.xxx (xxx may be any value from "1" to "254" except "10" to avoid IP collision).



6.. If the above operation still can not connect, or forget to login IP address, please operate the front panel of the device to restore to factory setting.

System Status

Modulation Format	Signal Source	Signal Status	Input Resolution	IP Level
DVB-T	HDMI	LOCK	UNLOCKW	100.0dBuV

Device ID	Device Name	Hardware Version	Software Version	Firmware Version
0000000000000000	SKD233NC	SKD233NC-06_V2.0 2017-12-04	2019-04-18 09:40:01	V1.2.3.2

Authorized	Error Message	Exp. Time
SUCCESS	input video error	Delay 0.07:1

Basic Parameters

Device ID	0000000000000000
Device Name	SKD233NC
Server Address	129.21.223.26
Signal Source	HDMI
OSD Language	English
Screen Saver Switch	ON
Screen Saver Time	60
Country/Region	Taiwan
Output Code Rate	1800
Input Resolution	UNLOCKW
Signal Lock	No
Deinterlace	ON

Advanced Settings

Submit

340296 x 10.10.10.10 x 360Net_M-1020-1-1020 x

192.168.1.10/index.html

System Status
Basic Parameters
Modulation Parameters
TS Parameters
Network Parameters
System Parameters
Account

Modulation Parameters

Channel Num	CH-05
Attenuation(dB)	0
Frequency(MHz)	177.5 <small>400 MHz range 200kHz</small>
Bandwidth	7M
Transmission Mode	FS
Constellation	QAM64
CodeRate	2/3
GuardInterval	1/32

Save

192.168.1.10/index.html

System Status
Basic Parameters
Modulation Parameters
TS Parameters
Network Parameters
System Parameters
Account

Network Parameters

LAN Setting

DHCP	OFF
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Primary DNS	8.8.8.8
Secondary DNS	202.96.134.133
MAC	88807032403A

WiFi Setting

WiFi Switch	ON
WiFi SSID	SOLARA_0250
WiFi Password	*****
WiFi Channel	Auto

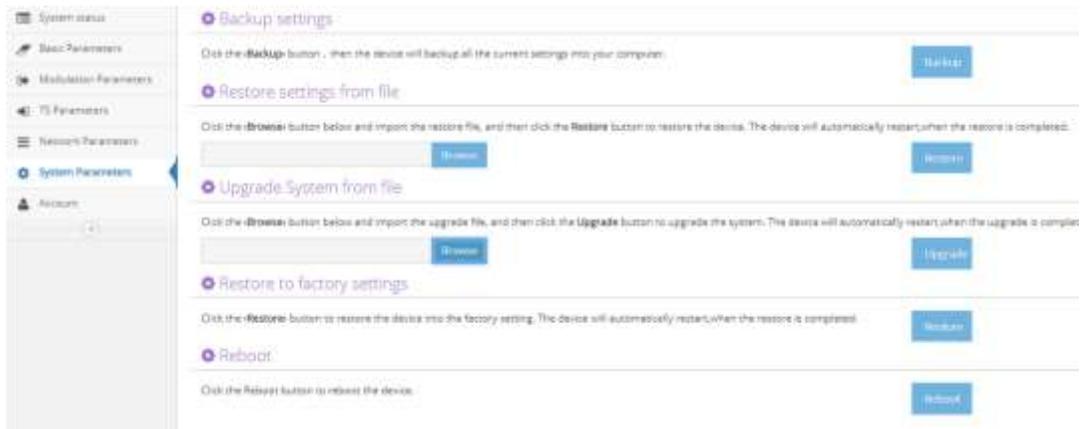
Snmp Trap

Trap Address	192.168.1.1
Trap Port	162

Save

11.Upgrade from PC end.

After success login system, enter “System Parameters” ,click Upgrade System from file “browse” ,select the “upgrade”



The screenshot shows a web interface with a left sidebar and a main content area. The sidebar contains the following menu items: System status, Basic Parameters, Modulation Parameters, TS Parameters, Network Parameters, System Parameters (highlighted with a blue arrow), and Account. The main content area is titled "System Parameters" and contains several sections:

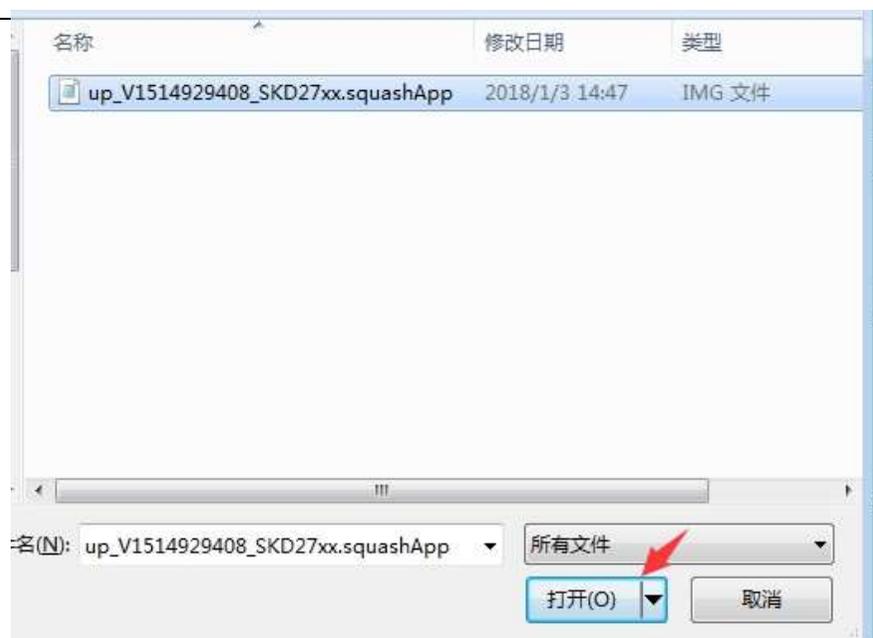
- Backup settings:** Click the **Backup** button, then the device will backup all the current settings into your computer. **Backup** button.
- Restore settings from file:** Click the **Browse** button below and import the restore file, and then click the **Restore** button to restore the device. The device will automatically restart when the restore is completed. **Browse** button, **Restore** button.
- Upgrade System from file:** Click the **Browse** button below and import the upgrade file, and then click the **Upgrade** button to upgrade the system. The device will automatically restart when the upgrade is completed. **Browse** button, **Upgrade** button.
- Restore to factory settings:** Click the **Restore** button to restore the device into the factory setting. The device will automatically restart when the restore is completed. **Restore** button.
- Reboot:** Click the **Reboot** button to reboot the device. **Reboot** button.



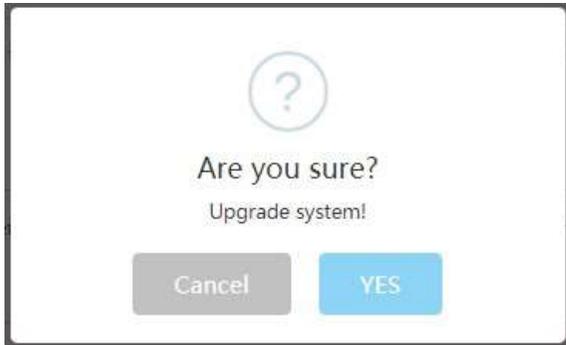
This is a close-up view of the "Upgrade System from file" section. It includes the following text and buttons:

Click the **Browse** button below and import the upgrade file, and then click the **Upgrade** button to upgrade the system. The device will automatically restart when the upgrade is completed.

Browse button (with a red arrow pointing to it), **Upgrade** button.



Select “YES “, upgrade.



6. when it come out below page, it will be successful in upgrade:

Upgrade Info

Current Step: ERASE wait next step....

Current Step: WRITE wait next step....

Current Step: CHECKSUM wait next step....

Current Step: FINISH wait next step....

Upgrade Success,Device Reboot....

Keep power on and network connect well

12. Safety

(1) Making Protective measures against electric shock if put the plug to the power socket

(2) Ensure the chassis is well grounded before power-on to prevent electric shock caused by equipment leakage;

(3) Do not have any liquid immersed in the device, to prevent short-circuit electric shock and serious damage to equipment;

(4) Installation and Test steps:

① Install a fixed rack;

② confirm the video input signal can work well, connect the video signal;

③ confirm DC12V voltage can work, connect the power supply;

④ set the modulation parameters;

⑤ set coding parameters;

⑥ Confirm the antenna signal is normal, connect the antenna signal

13. Warranty:

(1) the normal use of equipment, one year warranty;

(2) Do not disassemble the internal components of the equipment, otherwise, we will not be responsible for the warranty;

14. Remove the faults:

(1) the overall no power input, does not work: Please check the power input connection is correct or not

(2) the module power work, no signal:

① check equipment signal input is correct or not;

② check the setting of equipment coding parameters and modulation parameters are correct or not.

③ check the connected cable is correct or not;

④ Test each machine individually if so, please check the system network frequency whether has conflict or other failures;

⑤ restart the device power.

15. PACKING

1. SKD2036C 1pcs

2. Power plug 1pcs

