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			
	Encoding	H.264	
VIDEO	Input Resolution	1080P@60 MAX	
	Bit Rate	1~ 18 Mbps	
	Encoding	MPEG Layer 2	
AUDIO	Sample Rate	48KHz	
	Bit Rate	384kbps	
YPbPr		·	
	Encoding	H.264	
VIDEO	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			

	Standard	DVB-T COFDM		
	Bandwidth	6 / 7 / 8 MHz		
	Constellation	QPSK, 16QAM, 64QAM		
DVB-T	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		
	Standard	ARIB STB-B31		
	Bandwidth	6MHz		
	Constellation	DQPSK, QPSK, 16QAM, 64QAM		
ISDB-T	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 dBµV (0 ~ 31.5dB adjust)		
	Out-of-band Rejection	≥60 dB		
System				
	ANT Insertion Loss	4 dB		
Bonus Inputs	TF Slot	Support up to 128G		
	TFT display with control keys			
Control	NMW for computer			
	Android and IOS APP			

Shenzhen Dir	igshengwei	Electronic	Co., ltd
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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;
- 1 DC12VIN: 12V1A DC voltage input;
- (1) 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.

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.

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

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"

WIFI Passwd: 12345678 WIFI Channel: Auto DHCP: DISABLE	WIFI:	
WIFI Channel: Auto DHCP: DISABLE SOUKA	WIFI Passwd:	12345679
DHCP: DISABLE	WIFI Channel:	Auto
SOUKA	DHCP:	DISABLE
	50	UKA

(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.

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

Account: user; Password: user

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	s	OUKA	
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	Account	OUKA]

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

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*	Clear Config Files		>	
A	Language	English	>	
i	About		>	

(10.if your 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"

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NETWORK SETTINGS	
DHCP	
WIFI SETTINGS	
Wifi Switch	
Wifi SSID	SOUKA_010F >
Wifi Password	12345678 >
Wifi Channel	AUTO >

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

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Ketwork	k Parameters Sa	ive
NETWORK SETTING	IS	
DHCP	0	
IP Address	192.168.2.190	>
Subnet Mask	255.255.255.0	>
Default Gateway	192.168.1.1	>
Primary DNS	192.168.1.1	>
Secondary DNS	255.255.255.255	>

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).

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am filo∰Glat, F≥	需要进行参付验证 http://192.305.3.10 br-add-Maintailer-使利用目標 更作名 user 更弱

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.

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11.Upgrade from PC end.

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



Click the dirowise botton below and import the upgrade file, and then click the Upgrade botton to upgrade she every. The device will aucometically restart, when the upgrade she

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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

