SOUKA



USER MANUAL V1.0

NMS IP: 192.168.1.10

User Name: user Password: user

^{*}The X in the model number stands for different output modulations.

A Note from SOUKA about this Manual

Intended Audience

This user manual has been written to help people who have to use, integrate and to install the product. Some chapters require some prerequisite knowledge in electronics and especially in broadcast technologies and standards.

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Table of Contents

1. INTRODUCTION	•••••	3
2. FEATURES		3
3. SPECIFICATION		3
4. SAFT INTRODUCTIONS		4
5. UNPACKING AND HANDLING		5
6. INSTALLATION		5
7. FRONT PANEL VIEW		6
8. REAR PANEL VIEW		6
9. WEB MANAGEMENT	•••••	7
10. QUICK IP ETHERNET CONNECTION GUIDE		11
11. COMMON TROUBLESHOOTING		13
12. WARRANTY		14

1. INTRODUCTION

The SKD201X is the most cost-effective and smallest form factor solution in the market. With the second HDMI output port and a RF loop port, user can easily install the system with different requirements. Extremely compact and wall mountable, the SKD201X fits into any space virtually.

2. FEATURES

- 1. Extremely compact with less than 3CM height
- 2. MER greater than 35dB
- 3. High output level with 45dBmV MAX
- 4. Support MEPG 2.0 FHD encoding
- 5. Additional HDMI output port for HD content quick display
- 6. Built-in web UI allows for easy set-up and control visa the web browser

3. SPECIFICATION

ENCODING					
Input Connec	ctor	HDMI 1.4			
VIDEO		Encoding		MPEG 2	
		Input Resolution		1920*1080_60P; 1920*1080_50P; 1920*1080_60i;	
				1920*1080_50i; 1280*720_60P; 1280*720_50P	
		Bitrate		2 ~ 18 Mbps	
AUDIO	Encoding		MPEG 1 Layer II; AC3;AAC-LC; HE-AAC		
			MODULA	NOITA	
		Bandwidth		6/7/8M	
		Constellation		4QAM, 16QAM, 64QAM	
DVB-T		MER		≥ 38 dB	
		Coder Rate		1/2,2/3,3/4,5/6,7/8	
		Guard Interval		1/4,1/8,1/16,1/32	
		FFT		2k,8k	
			OUTP	TUT	
RF Output Level Output Frequency Range Out-band Rejection			≥ 30dBmV		
		Output Frequency Range		50 ~ 999.999MHz	
		Out-band Rejection		≥ 60dB	
			SYST	EM	
Management	Front	panel control; NMS; LCN Inse		rtion	YES
Language	English	1	Upgrade		NMS
	GENERAL				
Power Supply	Power Supply DC12V 1A		Power Consumption		< 5W
Net Weight 0.32KG		Dimensio	on	28*178*105(mm)	

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

4. 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 form 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 into 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

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.

5. UNPACKING AND HANDLING

A full SKD201X is shipped with all equipment assembled, wired, factory tested, and then packaged in an appropriate shipping container.

- SKD201X digital modulator (QTY=1)
- Power Cord and 2-pin plug (QTY=1)

5.1 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.

5.2 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 form leaky roofs, waveguide roof entries and cold water pipe condensations

5.3 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.

6. INSTALLATION

Please follow the instructions below to install the SKD201X digital modulator:

- 1. Connect the power plug to the jack
- 2. Connect the video source to the SKD201X modulator
- 3. Connect the SKD201X to your laptop or computer
- 4. Power up the modulator

7. FRONT PANEL VIEW



1. INDICATIORS

PWR Indicate power on.

LINK LOCKED Indicate that HDMI incoming signal is recognized

ENCODING Indicate the modulator is working

2. LED DISPLAY

Four-digit LED display for front panel control.

3. Control Buttons

▼ Enter, Move and Save

MENU Buttons Switch

▲ Indicate the modulator is working

8. REAR PANEL VIEW



1. GND : For modulator grounding

2. DC12V: DC12V power source

3. NMS: The default IP address is 192.168.1.10.

User name: user. Password: user

4. HD IN: For HDMI cable in

6. LOOP OUT: For HDMI quick display to TV

7. RF OUT: 45dBmV output level is provided at

this port.

8. RF IN: For RF signal loop



WARNING:

For the protection of your equipment and its proper working, it is necessary to connect the SKD201X to a ground connection.

9.WEB MANAGEMENT

9.1 LOGIN

The SKD201X has a friendly user interface for programming and monitoring the device. The user can get access to the built-in web UI by logging into Google Chrome, Firefox or Microsoft Edge accounts. (The best browsers)

The default user name and the default password are the following:

Username: *user* Password: *user*



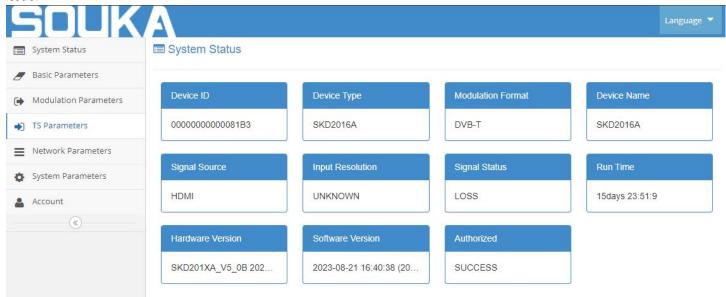
Please make sure your computer address is in the same IP segment as the modulator is.

Remind: 1. Please change the user name and password if needed.

- 2. Username/password are case-sensitive and may contain letters or numbers.
- 3. Username/password must be a minimum of 1 byte and a maximum of 32 bytes in length.

9.2 SYSTEM PAGE

This page is a read-only one which displays the general health of the unit, such as temperature, Input and output ports and Serial number. The information is provided as a quick way to monitor the system or assist with troubleshooting issue.



In the left side, it is the MENU while the settings will be displayed in the right side.

Device ID: The unique ID for this modulator. **Device Type:** The device model number

Modulation: Indicates the RF output modulation.

Device Name: Change the name in the Basic Parameters.

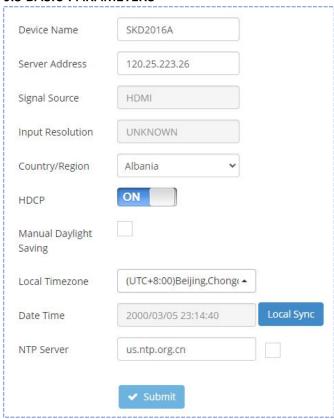
Input resolution: Display the input HDMI resolution. Unknown means wrong input resolution or loss HDMI cable.

Signal Status: LOSS means no signal input. Locked means the signal is running.

Software Version: If there's something wrong with this device, please send this information to us.

Run Time: The modulator's total working hours.

9.3 BASIC PARAMETERS



Device Name: Input the name you like. **Server Address:** NO MORE FUNCTION.

Signal Source: HDMI

Input Resolution: Display the input HDMI resolution. Unknown means wrong input resolution or loss HDMI

cable.

Country/Region: DVB-T country preset

HDCP: HDCP switch

Manual Daylight saving: Enable and disable the saving

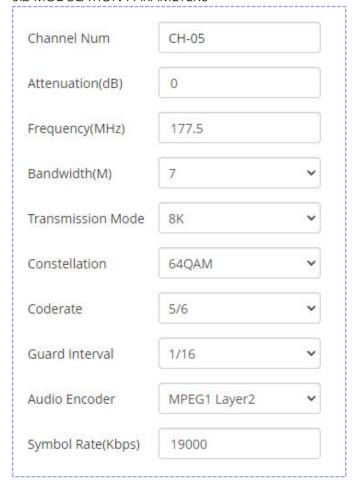
Local Time zone: Select the time zone **Date Time :** Correct the time here

Local Sync : Read your computer's time and date

NTS Server: Select the NTP server

SUBMIT: Save the settings

9.2 MODULATION PARAMETERS



CHANNEL NUM: Select the output channel in the

drop-box.

Attenuation : Reduce the output level.

Frequency: Input the output channel manually by

frequency.

Bandwidth: Select the bandwidth from 6/7/8M

Transmission: 2k and 8k

Constellation: 4QAM, 16QAM and 64QAM

Code rate and Guard interval: Please leave it as

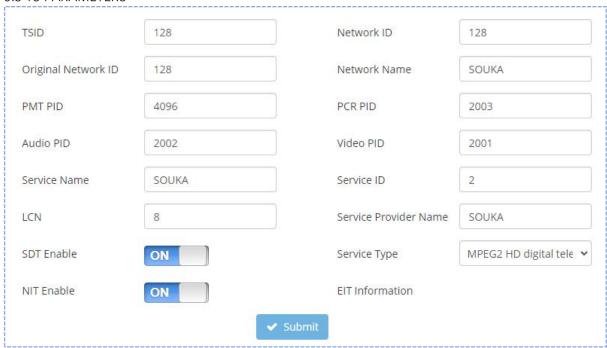
defaulted.

Audio Encoder: Select audio encoding

Symbol Rate: It is recommended to use the max one

SUBMIT: Save the settings

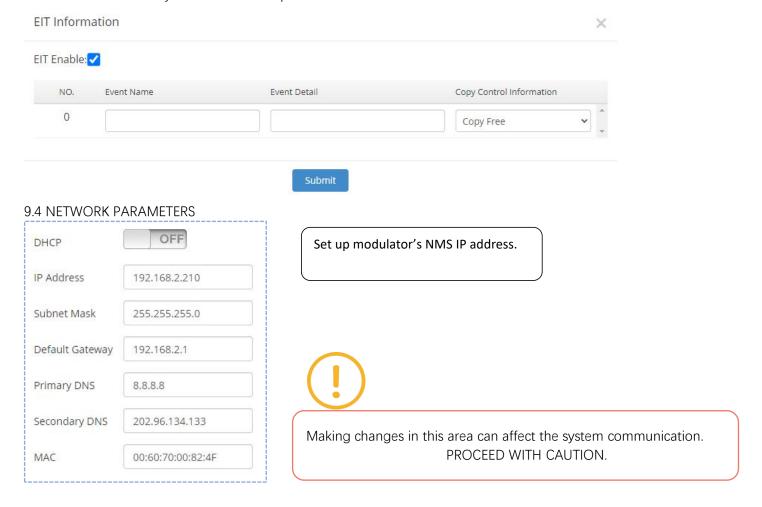
9.3 TS PARAMETERS



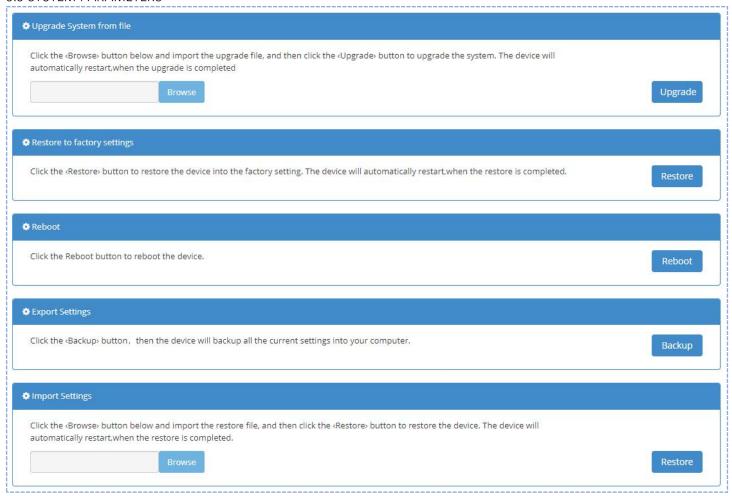
Please input the PID here. Notice that the Video PID, Audio PID and PMT PID should be different, otherwise the system won't save it.

SDT and NIT enable is ON.

EIT information is mostly used in ISDB-T Japan.



9.5 SYSTEM PARAMETERS



Upgrade system from file

Upgrade the modulator

Restore to factory settings

All settings will go back to factory settings

Reboot

Restart the modulator

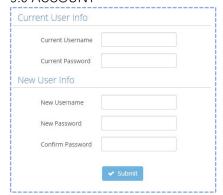
Export settings

You can backup your settings and import to another modulator. Or if the modulator can't work that well, you can send the backup file to us for modification.

Import settings

From here you can import the setting file to save time or import the right one to recover.

9.6 ACCOUNT



To verify the user name and the password, please input your current user name and password. Please notice that they are both case-sensitive.

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

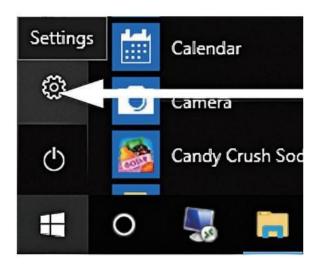
Making changes in this area can affect the system communication. PROCEED WITH CAUTION.

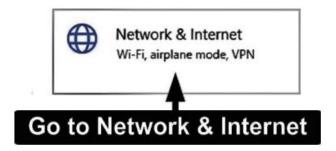
10. QUICK IP ETHERNET CONNECTION GUIDE



NOTICE: Make sure you login your operation system as the administrator.







10.2 Go to Windows Settings

10.3 Go to "Network & Internet"

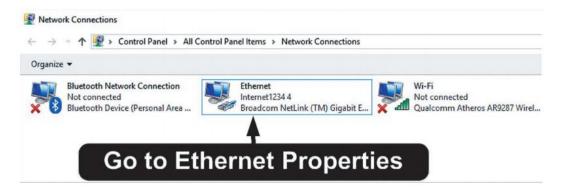
10.4 Go to "Ethernet" on the left side of the menu



10.5 Go to "Change adapter options"



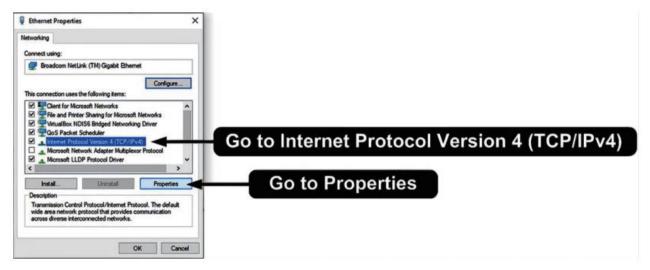
10.6 Double click on the Ethernet Source or Right Click and select "Properties"



10.7 Open Properties



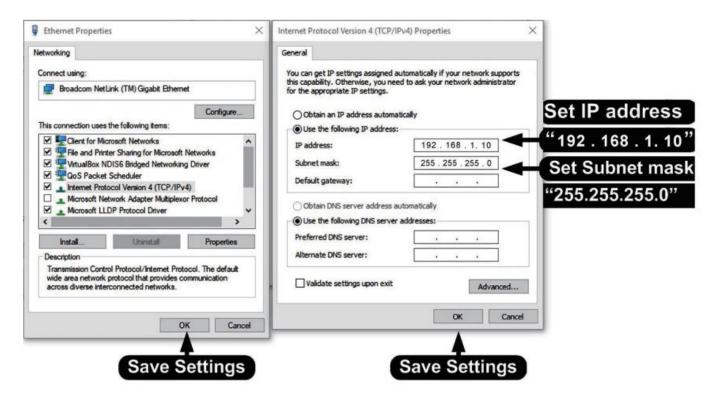
10.8 Go to "Internet Protocol Version 4 (TCP/IPv4)



10.9 Go to "Properties"

10.10 Go to "Use the following IP address"





Set IP address: 192.168.1.10 Set Subnet mask: 255.255.255.0 Set Default gateway: 192.168.1.1

10.12 Save all the settings.

11. COMMON TROUBLESHOOTING

SN	Symptom	Recommended Action	
1	Power LED is not lit.	Check the power cord connection	
2	Can't login to the NMS	Check Chapter 10	
3	The WEB UI is not in order and can't save the settings	Clear your browsing data	
4	Unknown shown in the NMS	No video input	
	UTIKNOWN SHOWN III the NIVIS	No supported video resolution	
5	Other issue	Please contact us for technical support	

12. WARRANTY

Dingshengwei Electronics equipment has been thoroughly tested and found to be in proper operating condition when shipped from the factory and is warranted to be free from defects in materials or workmanship that may develop within one year of the date of purchase. DSW agrees to remedy such or furnish a new part, or at its option an entire unit, or any part of a unit that disclosed such defect, provided that the unit or part is returned to DSW or DSW authorized service facility according to the terms listed below.

Prior authorization with a return authorization number issued by DSW or its representative is required for all returns. The purchaser shall be responsible for all freight charges on shipment to DSW unless otherwise authorized. Charges to return a unit or part to purchaser will be paid by DSW. Claim for damage in shipment to the purchaser must be filed by the purchaser with the carrier in accordance with the carrier's regulations.

DSW shall not be responsible for the shipping charge if the returned unit turns out to be flawless. A Return Material Authorization (RMA) Number is required on all products returned to DSW. Regardless if the product is being returned for repair or credit. Before returning product, please contact the DSW sale who you contact with.

Buyer:		RMA Number:
Mode Number	Products ID Number	Problem

If there's not enough space in this form, please attach a separate sheet of paper.

Thanks for using our products.
For more products, please visit our website: http://www.soukacatv.com