



# SKD2718 ATSC/J.83B DIGITAL MODULATOR Written by Ken V20180425T02 ken@soukacatv.com

### **INTRODUCTION**

The SKD2718 encoder modulator intergates the ATSC and J.83B encoders into a compact size box. It's the most cost-effective and simple-installation digital modulator to distribute the 1080P full HD video signal over your exsiting coax cables for North America market.

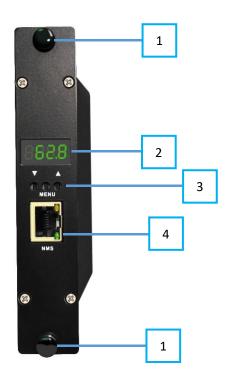
### **FEATURES**

- 1. Support MPEG 2 FHD encoding
- 2. Support major number and minor number insertion
- 3. Support SKD-M1 combiner chassis integrated into the 16 in 1 system
- 4. Operated and control via Android / iOS APP and NMS
- 5. Upgrade by NMS

### **SPECIFICATION**

|              |                        |                        | ENCOD             | ING  |                 |
|--------------|------------------------|------------------------|-------------------|--|-----------------|
| 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                                  |                 |
|              |                        | Encoding               |                   | MPEG 1 Layer II                              |                 |
| AUDIO        |                        | Sample Rate            |                   | 48KHz  |                 |
|              |                        | Bitrate                |                   | 384kbps                                      |                 |
|              |                        |                        | MODULA            | ATION  |                 |
|              |                        | Standard               |                   | ATSC A/53 (6M)                               |                 |
| ATSC         |                        | Bandwidth              |                   | 6M   |                 |
| AISC         |                        | Constellation          |                   | 8VSB   |                 |
|              |                        | MER                    |                   | ≥ 32 dB                                      |                 |
|              |                        | Standard               |                   | Annex B (6M)                                 |                 |
| DVB-C J.83   | D                      | Bandwidth              |                   | 6M   |                 |
| DVB-C 3.83   | Ь                      | Constellation          |                   | 64QAM, 256QAM                                |                 |
|              |                        | MER                    |                   | ≥ 36 dB                                      |                 |
|              |                        |                        | OUTP              | UT   |                 |
|              |                        | Output Level           |                   | ≥ 30dBmV                                     |                 |
| RF           |                        | Output Frequency Range |                   | 50 ~ 999.999MHz                              |                 |
|              |                        | Out-band Rejection     |                   | ≥ 60dB                                       |                 |
|              |                        |                        | SYSTE             | M  | -               |
| Management   | Control Keys; NMS; APP |                        | LCN Insertion     |  | YES             |
| Language     | English                |                        | Upgrade           |  | NMS             |
|              |                        |                        | GENEF             | RAL  |                 |
| Power Supply | upply DC12V 1A         |                        | Power Consumption |  | < 10W           |
| Net Weight   | 0.36 KG                | G Dimens               |                   | n  | 136*165*25 (mm) |

### **DISPLAY and BUTTONS**



### 1. Buttons:

To hold the modulator in the base unit.

### 2. LED Display:

Four-digit LED display for front panel control.

### 3. Up-down & MENU button:

To set up system

▲ Change Value; ▼ Enter, Move and Save **MENU** Switch options

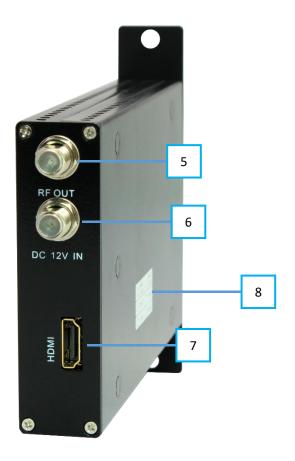
※ See Front Panel Control for more details.

### 4. **NMS:**

For web management.

The default IP address is 192.168.1.10.

User name: user. Password: user.



### 5. RF Output:

ATSC or QAM RF signal output port

### 6. **DC 12V In:**

Power input connector.

F connector for working with SKD2700M

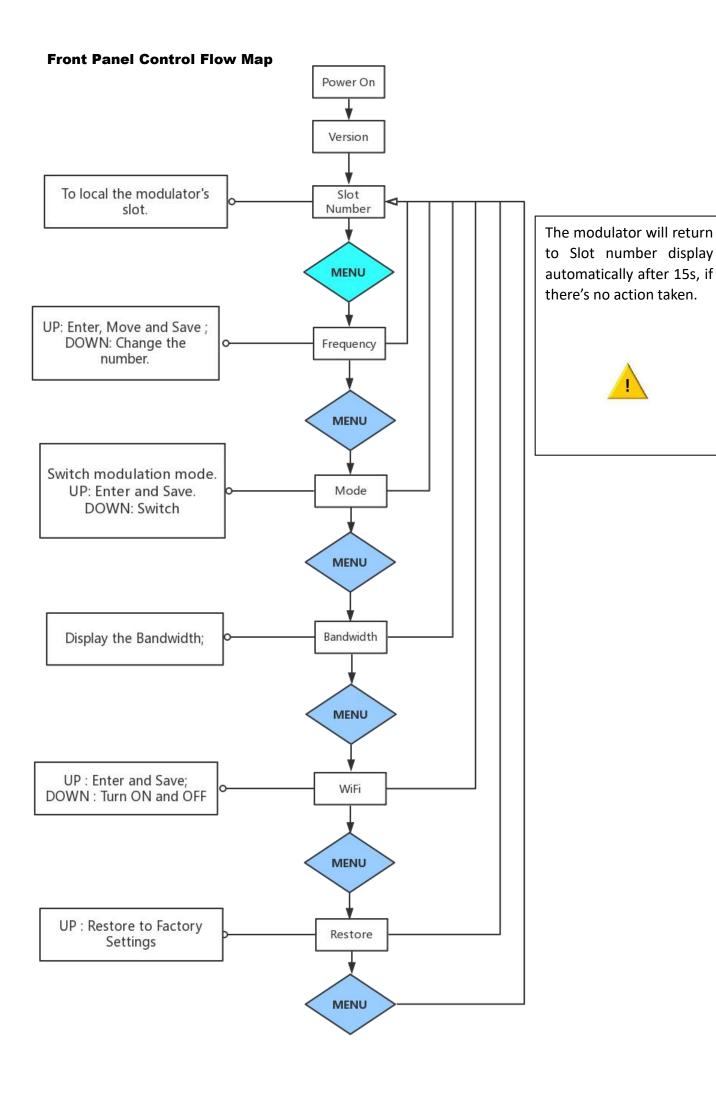
DC connector for working alone

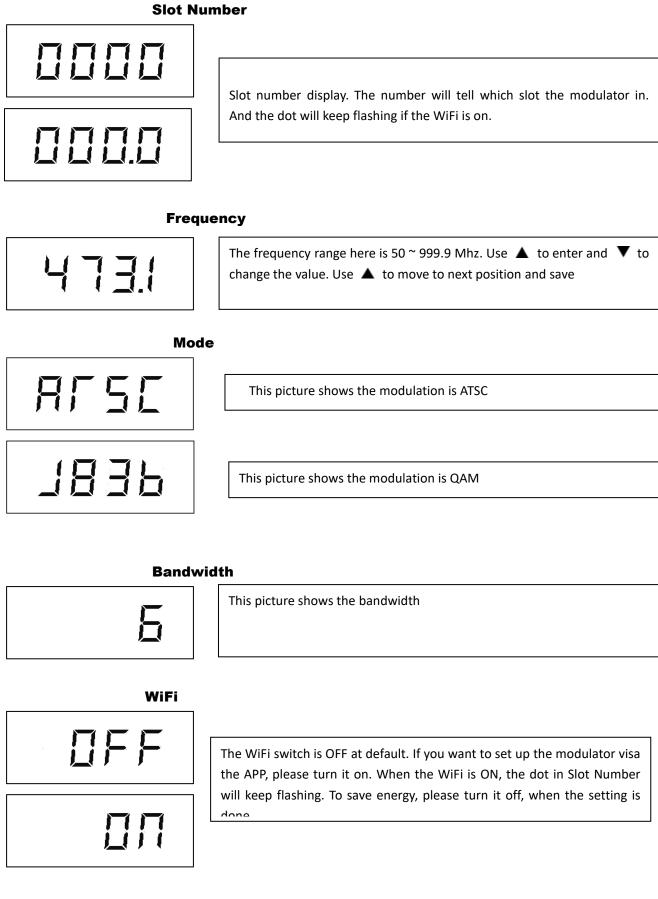
### 7. HDMI Input:

Feed in HD signal

### 8. Lable

Modulation and IP address lable





### **Restore**



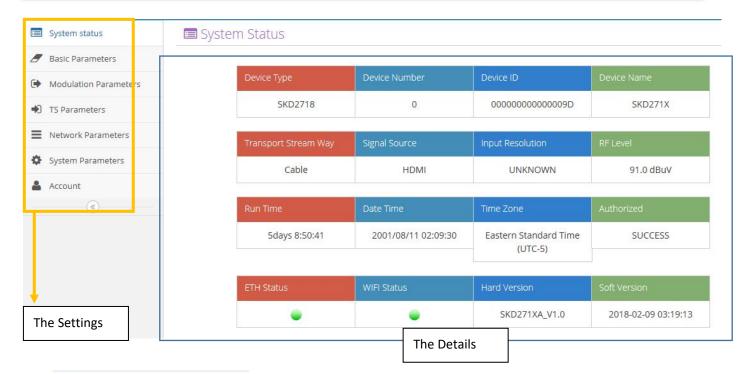
Press ▼ to restore to factory settings : Device number, TS settings,

### **WEB MANAGEMENT**

Notice: 1.Please turn off the DHCP in the modulator, if there is only one modulator. It is OFF at default.

- 2. Please use Google Chrome or Mircosoft Edge to login the system
- 1. Connect the modulator and the computer by the RJ45 port.
- 2. Open your Google Chrome and input default IP address 192.168.1.10, and press enter.
- 3. The default user name is user and the default password is user

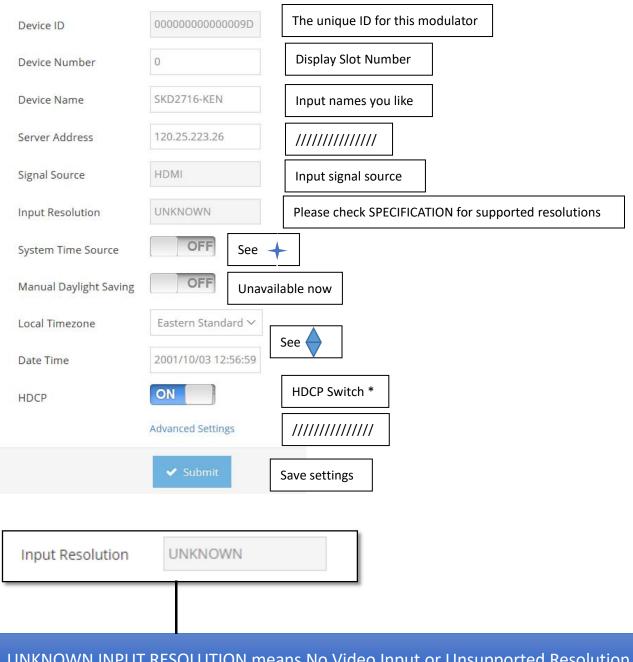
Notice: Please make sure your computer is in the same IP range as the modulator is.



01 System status

You can quickly check out the modulator working status here.

| Device Type          | Device Number       | Device ID                        | Device Name    |
|----------------------|---------------------|----------------------------------|----------------|
| SKD2718              | 0                   | 000000000000009D                 | SKD271X        |
| Transport Stream Way | Signal Source       | Input Resolution                 | RF Level       |
| Cable                | HDMI                | UNKNOWN                          | 91.0 dBuV      |
| Run Time             | Date Time           | Time Zone                        | Authorized     |
| 5days 8:52:11        | 2001/08/11 02:11:00 | Eastern Standard Time<br>(UTC-5) | SUCCESS        |
| ETH Status           | WIFI Status         | Hard Version                     | Soft Version   |
| 5311,303,033         |                     | Tidra version                    | 3010 1 0.3.011 |



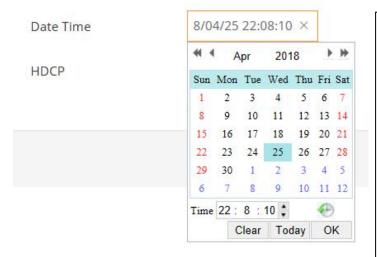
# UNKNOWN INPUT RESOLUTION means No Video Input or Unsupported Resolution





Local Timezone Eastern Standard

Hawaii Time (UTC-10)
Alaska Time (UTC-9)
Pacific Standard Time (UTC-8)
Mountain Standard Time (UTC-7)
Center Standard Time (UTC-6)
Eastern Standard Time (UTC-5)

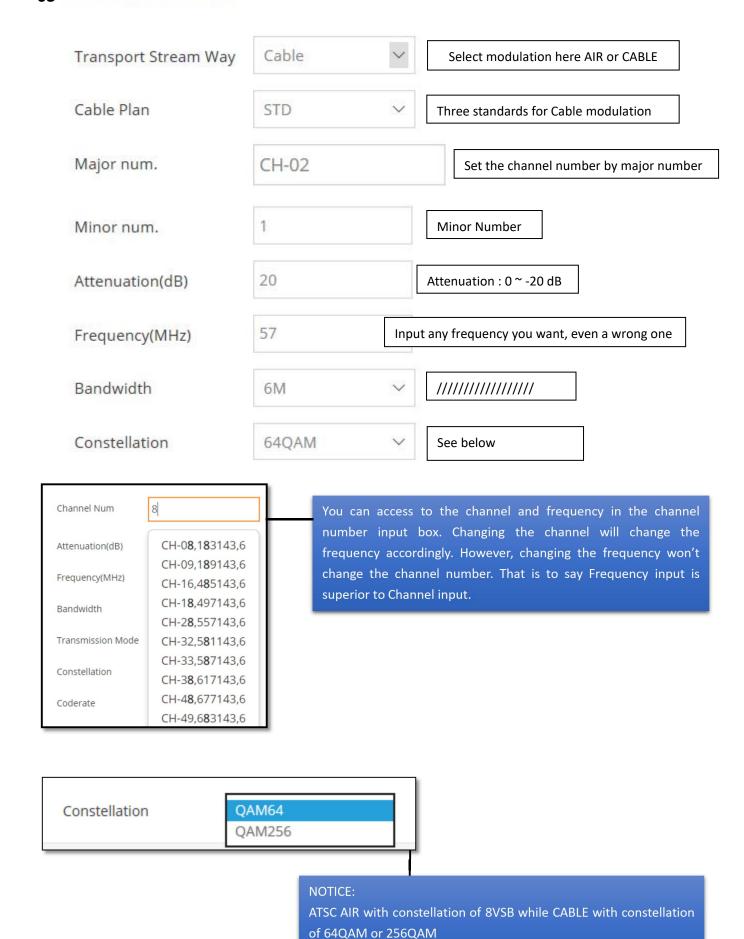


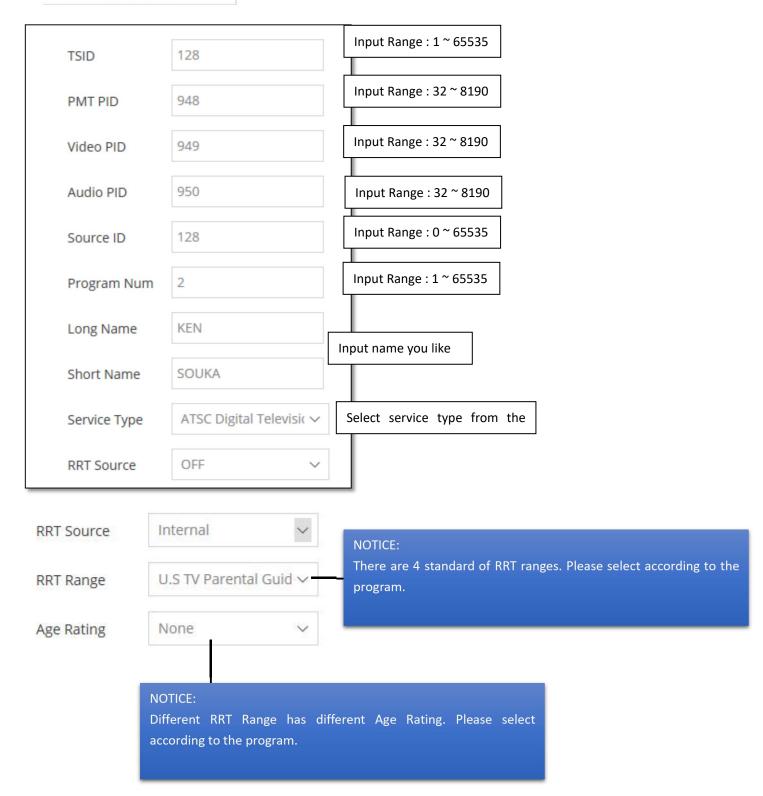
- 1. Changing the timezone will change the time automatically.
- 2. You can set the time manually by the time box.
- 3. Clear: Reset the time display
- 4. **Today**: The modulator will read the time from your computer
- 5. **OK**: Save and exit

\*To active HDCP function, you will be required to input the password. If you are a member of HDCP, please email us for the

password.



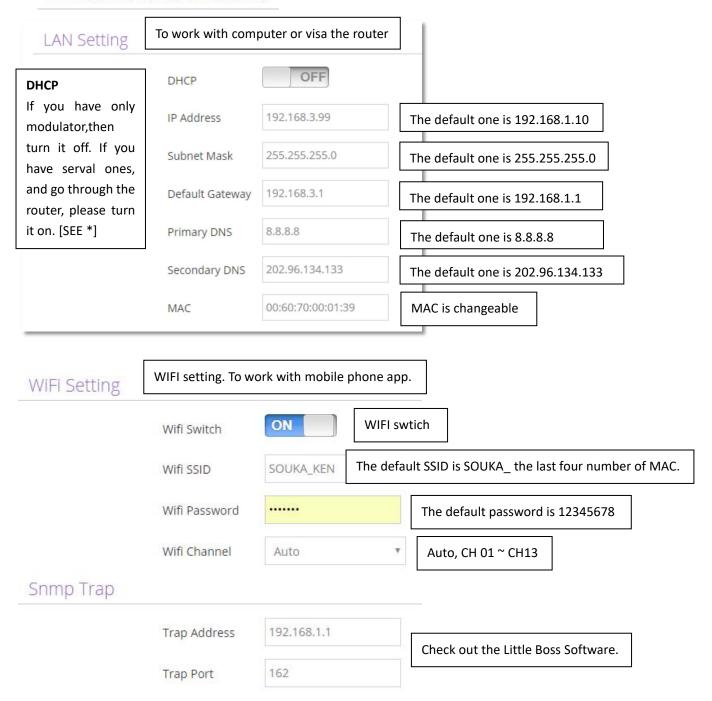




### **NOTICE:**

The Video PID, Audio PID and PMT PID should use different number, otherwise it won't be accepted. For the 271X and 2618 modulators, you don't need to set this since it is one carrier one program type. Long name and Short name will be display in the TV with the word you input.

## 05 ≡ Network Parameters



<sup>\*</sup>If you have only one modulator in your system, please turn off the DHCP. If not, you can't logo into the modulator. If you turn it on and can't logo into the modulator. Please use our APP to logo in or use our Software, which will find the modulator under the router.

If you have sever unit of modulators, we strongly recommend you use our software to manage all the modulators.

### **NOTICE:**

The modulator will reboot automatically if any change of network setting is applied.

# 06 System Parameters

| Export Settings   |  |
|---|--|
| Click the <b>Backup</b> button, then the device will backup all the current settings into your computer.  | Backup   |
| ♠ Import Settings   |  |
| Click the <b>Browse</b> button below and import the restore file, and then click the <b>Restore</b> button to restore the device. The device will automatical | lly restart, when the restore is completed.    |
| Browse  | Restore  |
| Upgrade System from file  |  |
| Click the <b>Browse</b> button below and import the upgrade file, and then click the <b>Upgrade</b> button to upgrade the system. The device will automate    | tically restart, when the upgrade is completed |
| Browse  | Upgrade  |
| Restore to factory settings   |  |
| Click the <b>Restore</b> button to restore the device into the factory setting. The device will automatically restart, when the restore is completed.         | Restore  |
| * Reboot  |  |
| Click the Reboot button to reboot the device.   | Reboot   |

### 6.1 Backup 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.

### 6.2 Restore settings from file

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

### 6.3 Upgrade system from file

Upgrade the modulator

### 6.5 Restore to factory settings

All settings will go back to factory settings

### 6.6 Reboot

Restart the modulator

| 07 | MI | Account |
|----|----|---------|
| U/ |    | ACCOUNT |

# Current User Name Current Password New User Info New User Name New Password Confirm Password

The default user name is user and the default password is user.

- If you forget your new user name or new password, you can use the reset button in the front pannel to restore.
- If you want to change the password only, the user name is required to be input as well.

