# SOFTEL

SFT3508B Tuner to IP Gateway

**User's Manual** 



HANGZHOU SOFTEL OPTIC CO., LTD

## DIRECTORY

CHAPTER 1 PRODUCT OUTLINE
1.1 Outline1
1.2 Features1
1.3 Inner Principle1
1.4 Specifications
1.5 Appearance and Description
CHAPTER 2 INSTALLATION GUIDE
2.1 Acquisition Check
2.2 Installation Preparation
2.3 Wire's Connection
CHAPTER 3 WEB NMS OPERATION8
3.1 login8
3.2 Operation
CHAPTER 4 TROUBLESHOOTING19
CHAPTER 5 PACKING LIST

## **Chapter 1 Product Outline**

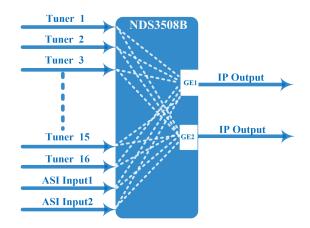
#### 1.1 Outline

SFT3508B Tuner to IP Gateway is a head-end interface conversion device which supports MPTS and SPTS output switchable. It supports 16 MPTS or 512 SPTS output over UDP and RTP/RTSP protocol. It is integrated with tuner demodulation (or ASI input) and gateway function, which can demodulate the signal from 16 tuners into IP package, or directly convert the TS from ASI input and tuner into IP package, then output the IP package through different IP address and ports. BISS function is also embedded for tuner input to descramble your tuner input programs.

#### **1.2 Features**

- Support 16 FTA DVB- S/S2/S2X (DVB-C/T/T2 /ISDB-T/ATSC optional ) input, 2 ASI input
- Support BISS descrambling
- Support DisEqc function
- 16 MPTS or 512 SPTS output (MPTS and SPTS output switchable)
- 2 GE mirrored output (IP address and port number of GE1 and GE2 are different), up to 850Mbps---SPTS
- 2 independent GE output port, GE1 + GE2---MPTS
- Support PID filtering, re-mapping (Only for SPTS output)
- Support "Null PKT Filter" function (Only for MPTS output)
- Support Web operation

## **1.3 Inner Principle**



## 1.4 Specifications

		Optional 1:16 tune	ers input +2 ASI inpu	utSPTS output	
Input		Optional 2:14 tuners input +2 ASI input MPTS output			
		Optional 3:16 tuners input MPTS output			
			Standard	J.83A(DVB-C), J.83B, J.83C	
		DVB-C	Frequency In	30 MHz~1000 MHz	
			Constellation	16/32/64/128/256 QAM	
		DVB-T/T2	Frequency In	30MHz ~999.999 MHz	
		D V D-1/12	Bandwidth	6/7/8 M bandwidth	
		DVB-S	Input Frequency	950-2150MHz	
			Symbol rate	1~45 Msps	
			FEC	1/2, 2/3, 3/4, 5/6, 7/8	
	(Version 1)		Constellation	QPSK	
		DVB-S2	Frequency In	950-2150MHz	
			Symbol rate	1~45 Msps	
			FEC	1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
Tuner			Constellation	QPSK, 8PSK	
Section		DVB-S	Frequency In	950-2150MHz	
			Symbol rate	0.5~45Msps	
			Signal Strength	- 6525dBm	
			FEC	1/2, 2/3, 3/4, 5/6, 7/8	
			Constellation	QPSK	
			Max input bitrate	≤125 Mbps	
	(Version 2)		Frequency In	950-2150MHz	
			Symbol rate	QPSK/8PSK /16APSK :0.5~45 Msps	
				32APSK: 0.5~34Msps;	
		DVB-S2		QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
			FEC	8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10	
				16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10	
				32APSK: 3/4, 4/5, 5/6, 8/9, 9/10	

			Constellation	QPSK, 8PSK, 16APSK, 32APSK		
			Max input bitrate	$\leq 125 \text{ Mbps}$		
			Frequency In	950-2150MHz		
			i requency in	QPSK/8PSK /16APSK :0.5~45 Msps		
			Symbol rate	8APSK: 0.5~40Msps		
			Symoor fute	32APSK: 0.5~34Msps		
				QPSK: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9,		
				9/10, 13/45, 9/20, 11/20		
			FEC	8PSK: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10		
				8APSK: 5/9-L, 26/45-L		
		DVB-S2X		16APSK: 2/3, 3/4, 4/5, 5/6, 8/9, 9/10,		
				1/2-L, 8/15-L, 5/9-L, 26/45, 3/5, 3/5-L,		
				28/45, 23/36 , 2/3-L, 25/36, 13/18, 7/9,		
				77/90		
				32APSK: 3/4, 4/5, 5/6, 8/9, 9/10, 2/3-L,		
				32/45, 11/15, 7/9		
			Constellation	QPSK, 8PSK, 8APSK, 16APSK, 32APSK		
			Max input bitrate	≤125 Mbps		
		ISDB-T	Frequency In	30-1000MHz		
		ATSC	Frequency In	54MHz~858MHz		
		AISC	Bandwidth	6M bandwidth		
<b>BISS Descr</b>	ambling	Mode 1, Mode E (Up to 850Mbps) (descramble individual program)				
		512 SPTS IP mirrored output over UDP and RTP/RTSP protocol through GE1 and				
		GE2 port (IP address and port number of GE1 and GE2 are different), Unicast and				
Output		Multicast				
		^	•	I passthrough) over UDP and RTP/RTSP		
		· .	•	Jnicast and Multicast		
System		Web based manager				
~		Ethernet software u	<u> </u>			
		Dimension		nm×44mm (W×L×H)		
		Approx weight	3.6kg			
Miscellaneo	ous	Environment	. ,	; -20~80℃ (Storage)		
		Power requirements		, 50/60Hz		
		Power consumption	n 20W			

## **1.5 Appearance and Description**

Front Panel Illustration:



1	Power indicator
2	Reset: Reset webmaster IP address, recover it to default IP address
3	USB port for upgrade
4	NMS port: Network management interface
5	Data port (GE1&GE2) : IP out port
6	ASI input port

## Rear Panel Illustration



1	16 channels RF IN Interface
2	Integrated power switch and socket
3	Grounding Wire

## **Chapter 2 Installation Guide**

#### 2.1 Acquisition Check

When users open the package of the device, it is necessary to check items according to packing list. Normally it should include the following items:

- SFT3508B Tuner to IP Gateway
- User's Manual
- Grounding Cable
- RF In and Loop Out Cable
- Power Cord

If any item is missing or mismatching with the list above, please contact local dealer.

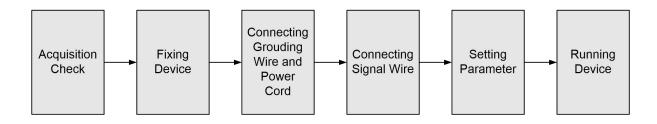
#### **2.2 Installation Preparation**

When users install device, please follow the below steps. The details of installation will be described at the rest part of this chapter. Users can also refer rear panel chart during the installation.

The main content of this chapter including:

- Checking the possible device missing or damage during the transportation
- Preparing relevant environment for installation
- Installing gateway
- Connecting signal cables
- Connecting communication port (if it is necessary)

#### **2.2.1 Device's Installation Flow Chart Illustrated as following:**



#### 2.2.2 Environment Requirement

Item	Requirement			
	When user installs machine frame array in one machine hall, the			
Machine Hall Space	distance between 2 rows of machine frames should be 1.2~1.5m			
	and the distance against wall should be no less than 0.8m.			
	Electric Isolation, Dust Free			
Machine Hall Floor	Volume resistivity of ground anti-static material:			
Machine Han Floor	$1X10^7 \sim 1X10^{10 \ \Omega}$ , Grounding current limiting resistance: 1M			
	(Floor bearing should be greater than 450Kg/m <sup>2</sup> )			
Environment	$5 \sim 40^{\circ} C$ (sustainable), $0 \sim 45^{\circ} C$ (short time),			
Temperature	installing air-conditioning is recommended			
Relative				
Temperature	20%~80% sustainable 10%~90% short time			
Pressure	86~105KPa			
	Installing rubber strip for sealing door-gaps and dual level			
Door & Window	glasses for window			
Wall	It can be covered with wallpaper, or brightness less paint.			
Fire Protection	Fire alarm system and extinguisher			
	Requiring device power, air-conditioning power and lighting			
D	power are independent to each other. Device power requires AC			
Power	power 100V-240V 50/60Hz 2A. Please carefully check before			
	running.			

#### 2.2.3 Grounding Requirement

- All function modules' good grounding designs are the basis of reliability and stability of devices. Also, they are the most important guarantee of lightning arresting and interference rejection. Therefore, the system must follow this rule.
- Coaxial cable's outer conductor and isolation layer should keep proper electric conducting with the metal housing of device.
- Grounding conductor must adopt copper conductor in order to reduce high frequency impedance, and the grounding wire must be as thick and short as possible.
- Users should make sure the 2 ends of grounding wire well electric conducted and be

antirust.

- It is prohibited to use any other device as part of grounding electric circuit
- The area of the conduction between grounding wire and device's frame should be no less than 25mm<sup>2</sup>.

#### 2.2.4 Frame Grounding

All the machine frames should be connected with protective copper strip. The grounding wire should be as short as possible and avoid circling. The area of the conduction between grounding wire and grounding strip should be no less than 25mm<sup>2</sup>.

#### 2.2.5 Device Grounding

Connecting the device's grounding rod to frame's grounding pole with copper wire.

#### 2.3 Wire's Connection

The grounding wire conductive screw is located at the right end of rear panel, and the power switch, fuse, power supply socket is just beside ,whose order goes like this, power switch is on the left ,power supply socket is on the right and the fuse is just between them.

#### • Connecting Power Cord

User can insert one end into power supply socket, while insert the other end to AC power.

#### • Connecting Grounding Wire

When the device solely connects to protective ground, it should adopt independent way, say, share the same ground with other devices. When the device adopts united way, the grounding resistance should be smaller than  $1\Omega$ .

#### TCaution:

Before connecting power cord to SFT3508B Tuner to IP Gateway, user should set the power switch to "OFF".

## **Chapter 3 WEB NMS operation**

User can only control and set the configuration in computer by connecting the device to web NMS Port. User should ensure that the computer's IP address is different from the SFT3508B's IP address; otherwise, it would cause IP conflict.

#### 3.1 login

The default IP of this device is 192.168.0.136.

Connect the PC and the device with net cable, and use ping command to confirm they are on the same network segment.

I.G. the PC IP address is 192.168.99.252, we then change the device IP to 192.168.99.xxx (xxx can be 0 to 255 except 252 to avoid IP conflict).

Use web browser to connect the device with PC by inputting this device's IP address in the browser's address bar and press Enter.

It displays the Login interface as Figure-1. Input the Username and Password (Both the default Username and Password are "admin".) and then click "Login" to start the device setting.

0	http://192.168.0.136 正在请求您的用户名和密码。该网站说:"Web Server
?	Authentication"
B户名:	admin
<del>密码</del> :	•••••
	确定取消

Figure-1

## **3.2 Operation**

#### **Summary** → **Status**

When we confirm the login, it displays the status interface as Figure-2.

Tuner to IP Gateway			
o use Web Management			2019-04-15 10:46:45 [Exit]
Summary       DEVICE INFORM         Status       Parameters         Tuner Input       ASI Input         ASI Input       TS Config         Biss       SPTS select         System       Network         Password       Save   Restore         Backup   Load       Firmware	Software Version: Hardware Version: Web Version: System Version: Product ID: Uptime:	1.33 Build 100 Mar 15 2019 1.b0 1.15 01.01.02.08(EN) 03508216-20000012-00000000-00000000 0 Day(s)-00:00:43 n information	
User can click any item here to enter			
the corresponding interface to check			
information or set the parameters.	Figure-2		

#### **Parameter**→ **Tuner input (DVB-C/T/T2/ISDBT)**

From the menu on top side of the webpage, click "Tuner Input", it displays the interface where users can check the 16 Tuners input status. SFT3508B supports multi tuners switch manually. (Figure-3)

uner to IP Gatewa		Iulti tune	rs input		:	2019-04-15 10:4	9:49
Summary		4	•				
Status							
Parameters	1 DVB-T2	Quality : Strength:	99%	C/N: 38.00 dB Power: -11.00 dBm	16.870 Mbps	Freq:650.000MH	Edit
<ul> <li>ASI Input</li> <li>TS Config</li> </ul>	2 DVB-T	Quality : Strength:	0%	BER: 0.00e+00 C/N: 0.00 dB Power: -101.50 dBm BER: 1.00e+00	🛑 0.000 Mbps	Freq:650.000MHz	Edit
<ul> <li>Biss</li> <li>SPTS select</li> </ul>	3 DVB-C(J.83 A/C)	Quality : Strength:	0%	C/N: 0.00 dB Power: -103.00 dBm BER: 1.00e+00	🔴 0.000 Mbps	Freq:650.000MHz	Edit
System Network	4 J.83B	Quality : Strength:	0%	C/N: 0.00 dB Power: -97.00 dBm BER: 1.00e+00	🔴 0.000 Mbps	Freq:650.000MHz	Edit
<ul> <li>Password</li> <li>Save   Restore</li> <li>Backup   Load</li> </ul>	5 ISDB-T	Quality :	0%	C/N: 0.00 dB Power: -103.00 dBm	🔴 0.000 Mbps	Freq:650.000MHz	Edit
Firmware	6 DVB-C(J.83 A/C)	Quality : Strength:	0%	C/N: 0.00 dB Power: -100.00 dBm BER: 1.00e+00	🔴 0.000 Mbps	Freq:650.000MHz	Edit
	7 DVB-C(J.83 A/C)	Quality : Strength:	0% 0%	C/N: 0.00 dB Power: -103.00 dBm BER: 1.00e+00	🔴 0.000 Mbps	Freq:650.000MHz	Edit
	8 DVB-C(J.83 A/C)	Quality : Strength:	0% 0%	C/N: 0.00 dB Power: -103.50 dBm BER: 1.00e+00	🔴 0.000 Mbps	Freq:650.000MHz	Edit
	9 DVB-C(J.83 A/C)	Quality : Strength:	0%	C/N: 0.00 dB Power: -103.50 dBm BER: 1.00e+00	0.000 Mbps	Freq:650.000MHz	Edit
	10 DVB-C(J.83 A/C)	Quality : Strength:	0%	C/N: 0.00 dB Power: -103.50 dBm BER: 1.00e+00	🔴 0.000 Mbps	Freq:650.000MHz	Edit



Clicking "Edit" to set parameters for tuner:

Demodulation:	DVB-T2	•
Frequency:(60-890)	650.000	MHz
Bandwidth:	8 M	
PLP:	0	

DVB	
Detail Parameter	
Demodulation: Frequency:(60-890) Bandwidth:	DVB-T • 650.000 MHz 8 M •
3	
3	
3	
3	
2	
3	
3	Set Close
DV	B-T
Detail Parameter	
Demodulation:	DVB-C(J.83 A/C)
Frequency:(60-890) Symbolrate:(1000-9000)	650.000 MHz 6875 Ksps
Constellation:	64 QAM -
3	
3	
3	
3	Set
	(1.92  A/C)
DVB-C	(J.83A/C)
Demodulation:	J.83B •
Frequency:(60-890) Symbolrate:(1000-9000)	650.000 MHz 5057 Ksps
Constellation:	64 QAM •
2	
3	
3	
3	
3	
3 3 3	[Sel] [Chee]
	Set Close
DVB-C	Set Close C (J.83B)
a a DVB-C Detail Parameter	
	C (J.83B)
Detail Parameter Demodulation:	C (J.83B)

#### ISDB-T

## Parameter→ ASI input

From the menu on top side of the webpage, click "ASI Input", it displays the interface where

ome to use Web Manage				2018-01-03 15:53:46 [EN 中文][E>
Summary Status	ASI INPUT			
Parameters	ASI	12		
Tuner Input		Signal Lock:	۲	
ASI Input		Bitrate:	0.000 Mbps	
TS Config	ASIZ			
Biss		Signal Lock:		
SPTS select		Bitrate:	0.000 Mbps	
System		Didde.	0.000 Mbps	
Network				
Password				
Save   Restore				
Backup   Load				
Firmware				

users can check the 2 channels of ASI input status. (Figure-4)

#### **Parameter**→ **TS** Config

Clicking "TS Config", it displays the interface where users can set the output TS and configure TS ID and ON ID (Figure-5).

Tuner to IP Gate	way(SPTS)					
ment				2018-01-03 15:53:56	[EN 中文]	[Exit]
Summary  Status	TS CONFIGURATION					
Parameters     Tuner Input     ASI Input	Stream TS ID:	1				
<ul> <li>TS Config</li> <li>Biss</li> <li>SPTS select</li> </ul>	ON ID:	1	Default	Apply		
System  Network Password						
<ul> <li>Save   Restore</li> <li>Backup   Load</li> <li>Firmware</li> </ul>						



#### $Parameter {\rightarrow} BISS$

From the menu on left side of the webpage, clicking "BISS", it displays the interface where users can configure BISS and descramble the input channels (Figure-6).

ement	2019-04-15 10:50:07 [E
Summary	BISS CONFIGURATION
Status	BISS CONFIGURATION
Parameters	
	Overview
Tuner Input	OVERVIEW
ASI Input	Index Alias Session Word(0x) Inject ID(0x) Mode Add Del-All
TS Config	
Biss	1 SW-1 123456789abc 123456789abcde MODE-1 Detail. Det
SPTS select	
System	
System	Edit
Network	
Password	Alias: 5W-1
Save   Restore	- SW(0x   12 character) 123456789abcdeff -
Backup   Load	Inject ID:(0x) 123456789abcdeff Mode: MODE-1
Firmware	Mode: MODE-1 - Burned Key: Disable -
	Bullieu Rey. Disade
	Apply
	Figure-6

#### **Parameter** → **SPTS Select:**

From the menu on left side of the webpage, clicking "SPTS Select", it displays the interface where users can choose 16 Tuner input and 2 ASI Input programs to output from IP (max 512 SPTS). (Figure-7)

welcome to use			2019-04-15 10:50:29
Summary Status	PROGRAM SELECT		
Tuner Input	⇒Lose ⇒ Locked		→Normal → Overflow
ASI Input     TS Config     Biss     SPTS select  System     Network     Password     Save   Restore     Backup   Load     Firmware	→1 Tuner DV8-T/T2 (prog: 0) →2 Tuner DV8-T/T2 (prog: 0) →3 Tuner DV8C (prog: 0) →4 Tuner DV8C (prog: 0) →5 Tuner ISBRT (prog: 0) →6 Tuner DV8C (prog: 0) →7 Tuner DV8C (prog: 0) →9 Tuner DV8C (prog: 0) →10 Tuner DV8C (prog: 0) →11 Tuner DV8C (prog: 0) →11 Tuner DV8C (prog: 0) →13 Tuner DV8C (prog: 0) →13 Tuner DV8C (prog: 0) →14 Tuner DV8C (prog: 0) →15 Tuner DV8C →15 Asl (prog: 0) →18 Asl (prog: 0)	[17.989 M] [0.000 M]	
	Parse program time out: 60 seconds	Operation A	rea



Configure 'Input Area' and 'Output Area' with buttons in 'Operation Area'. Instructions are as below:

CA Filter : To filter/not filter the source CA information

 $^{\ensuremath{\boxtimes}}$  PID  $\ensuremath{\mathsf{Remap}}$  : To enable/disable the PID remapping

Refresh Input To refresh the input program information

Refresh Output To refresh the output program information

Select one input program first and click this button to transfer the selected program to the right box to output.

Similarly, user can cancel the multiplexed programs from the right box.

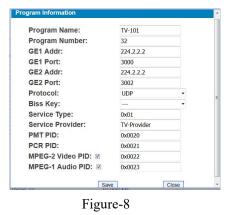
All Input To select all the input programs

All Output To select all the output programs

Parse program To parse programs time out 60 seconds time limitation of parsing input programs

#### Program Modification:

The multiplexed program information can be modified by clicking the program in the 'output' area. For example, when clicking program in output area, it triggers a dialog box (Figure 8) where users can input new information.



Note: SFT3508B support 16 Tuner input and 2 ASI input with 512 SPTS output, the parameter interface is different from MPTS. When users switch SPTS to MPTS, new mode will work after reboot the device.

#### **Parameter**→ **BISS**:

From the menu on left side of the webpage, clicking "BISS", it displays the interface where users can configure BISS and descramble the input channels (Figure-9).

					2018-01-03 15:	<sup>59:26</sup> [EN   中文 ] [Exit
Summary Status Parameters	BISS CONFIGURATION					
Tuner Input		t Output:	CH1 CH1		Select the o	utput carrier
ASI Input Biss Program Parse IP Stream	Overview Index	Alias S	CH2 CH3 CH4 CH5	ct ID(0x)	Mode Add	Del-All
System  Network  Date   Time  Password  Save   Restore  Backup   Load  Firmware			CH6 CH7 CH8 CH9 CH10 CH11 CH12 CH12 CH13 CH14 CH15 CH16	Edi	Alias: SW(0x   12 character) Inject ID:(0x) Mode: Burned Key:	SW-1 123456789abcdeff 122456789abcdeff MODE-1 Disable Save Close

Figure-9

#### **Parameter**→ **Program Parse**

From the menu on left side of the webpage, clicking "Program Parse", it displays the interface where users can parse the program from the input channels.

When users disable the ASI input, SFT3508B can support 16 Tuner input with 16 MPTS IP output (Figure-10).

		2019-04-15 10:52:25 [ E
Summary	PROGRAM PARSE	
<ul> <li>Status</li> </ul>		Enable and Disable t
Parameters	ASI Input: disable -	, Endore and Dibuore (
Tuner Input	Parse	ASI input
ASI Input		
Biss	⇒Lose ⇒ Locked	
Program Parse	⇒1 Tuner DVB-T/T2 1 (prog: 0)	[21.230 M]
IP Stream	→2 Tuner DVB-T/T2 2 (prog: 0)	[0.000 M]
	⇒3 Tuner DVBC 3 (prog: 0)	[0.000 M]
System	→4 Tuner DVBC 4 (prog: 0)	[0.000 M]
N 1177 1	⇒5 Tuner ISDBT 5 (prog: 0)	[0.000 M]
Network	→6 Tuner DVBC 6 (prog: 0) →7 Tuner DVBC 7 (prog: 0)	[0.000 M]
Date   Time	$\rightarrow$ 7 funer DVBC 7 (prog. 0) $\rightarrow$ 8 Tuner DVBC 8 (prog. 0)	[0.000 M] [0.000 M]
Password	⇒9 Tuner DVBC 9 (prog. 0)	[0.000 M]
Save   Restore	⇒10 Tuner DVBC 10 (prog: 0)	[0.000 M]
Backup   Load	⇒11 Tuner DVBC 11 (prog: 0)	[0.000 M]
Firmware	⇒12 Tuner DVBC 12 (prog: 0)	[0.000 M]
	→13 Tuner DVBC 13 (prog: 0)	[0.000 M]
	⇒14 Tuner DVBC 14 (prog: 0)	[M 000.0]
	→15 Tuner DVBC 15 (prog: 0)	[0.000 M]
	→16 Tuner DVBC 16 (prog: 0)	[0.000 M]

Figure-10

When users enable the ASI input, SFT3508B can support 14 Tuner input and 2 ASI input with 16 MPTS IP output (Figure-11).

welcome to use We		2019-04-15 10:52:39
Summary	PROGRAM PARSE	
<ul> <li>Status</li> </ul>		
Parameters	ASI Input: enable -	
Tuner Input	Parse	
ASI Input		
Biss	⇒Lose ⇒ Locked	
Program Parse	→1 Tuner DVB-T/T2 1 (prog: 0)	[20.540 M]
► IP Stream	→2 Tuner DVB-T/T2 2 (prog: 0)	[0.000 M]
	→ 3 Tuner DVBC 3 (prog: 0) → 4 Tuner DVBC 4 (prog: 0)	[0.000 M]
System	⇒5 Tuner ISDBT 5 (prog: 0)	[0.000 M] [0.000 M]
Network	→6 Tuner DVBC 6 (prog: 0)	[0.000 M]
Date   Time	→7 Tuner DVBC 7 (prog: 0)	[0.000 M]
Password	⇒8 Tuner DVBC 8 (prog: 0)	[0.000 M]
Save   Restore	→9 Tuner DVBC 9 (prog: 0) →10 Tuner DVBC 10 (prog: 0)	[0.000 M]
Backup   Load	$\rightarrow$ 10 Tuner DVBC 10 (prog: 0) $\rightarrow$ 11 Tuner DVBC 11 (prog: 0)	[0.000 M] [0.000 M]
Firmware	⇒12 Tuner DVBC 12 (prog: 0)	[0.000 M]
	→13 Tuner DVBC 13 (prog: 0)	[0.000 M]
	→14 Tuner DVBC 14 (prog: 0)	[0.000 M]
	→15 ASI 1 (prog: 0)	[0.000 M]
	→ 16 ASI 2 (prog: 0)	[0.000 M]

Figure-11

#### **Parameter→ IP Stream**

SFT3508B supports TS to output in IP (16\*MPTS) format through the GE1 or GE2 port. Clicking "IP Stream", it displays the interface where to set IP out parameters (Figure-12).

welcome to ι						GE1	-	16:00:48	[EN   中文]	] [Exi
Summary	IP STREAM					GE1				
					/	GE2				
Status		Output F	Port:	GE1	Ļ					
Parameters										
Tuner Input		Output F	Protocol:	UDP	×	UDP	-			
ASI Input	IP Out					UDP				
Biss		Enable	Null PKT Filter	Output IP	Port	RTP/RTSP				
Program Parse		01: 🔳		224.2.2.2	2000	L				
IP Stream		02:		224.2.2.2	2002					
System		03: 🗐		224.2.2.2	2004					
Network		04: 🕅	8	224.2.2.2	2006					
Date   Time		05: 🔳	8	224.2.2.2	2008					
Password		06:		224.2.2.2	2010					
Save   Restore		07:		224.2.2.2	2012					
Backup   Load     Firmware		08:	0	224.2.2.2	2012					
		09:		224.2.2.2	2014					
		10:		224.2.2.2						
		11:		224.2.2.2	2018					
		12:			2020					
				224.2.2.2	2022					
		13: 🔳		224.2.2.2	2024					
		14: 🔳		224.2.2.2	2026					
		15: 🔳		224.2.2.2	2028					
		16: 🔳		224.2.2.2	2030					

Figure-12

#### System → Network:

Clicking "Network", it displays the interface as Figure-13 where to set network parameters.

welcome to use \				2018-01-03 15:55:39 [EN 中文]
Summary	NETWORK			
▶ Status	NMS			
arameters		IP Address:	192.168.0.136	Set NMS IP address, the
Tuner Input		Subnet Mask:	255,255,255,0	default IP address is
ASI Input		Gateway:	192.168.0.1	192,168.0,136
TS Config		Web Manage Port:	80	192.108.0.130
Biss     SPTS select		MAC Address:	20-10-12-34-56-78	
				Apply
ystem	DATA			
Network     Password		GE1:		
Save   Restore				
Backup   Load		IP Address:	192.168.2.137	Set GE1 IP address
Firmware		Subnet Mask:	255.255.255.0	
		Gateway:	192.168.2.1	
		MAC Address:	20-20-12-34-56-78	
		GE2:		
		IP Address:	192.168.2.150	Set GE2 IP address
		Subnet Mask:	255.255.255.0	
		Gateway:	192.168.2.1	
		MAC Address:	20-20-12-34-56-78	

Figure-13

#### System → Date & Time:

Clicking "Date & Time", it displays the interface as Figure-14 where to set date and time.

t 2018-01-03 16:02:20 [EN   中文] [E     Summary   Status     Parameters   Date:   2015   6   1   Tuner Input   ASI Input   Biss   Program Parse   IP Stream     System     Network   Date   Time   Password   Save   Restore   Backup   Load	Tuner to IP Gatew	/ay					
Status   Parameters   Tuner Input   ASI Input   Biss   Program Parse   IP Stream     System   Network   Date   Time   Password   Save   Restore   Backup   Load	ıt					2018-01-03 16:02:20	[EN 中文][Exit]
> Tuner Input       2015       - 6       - 1         > ASI Input       0       : 4       : 25         > Biss       Program Parse		DATE & TIME					
<ul> <li>ASI Input</li> <li>Biss</li> <li>Program Parse</li> <li>IP Stream</li> </ul> System Network Date   Time Password Save I Restore Backup   Load	Parameters	Da	ate: 2015	- 6	- 1		
<ul> <li>Biss Apply</li> <li>Program Parse</li> <li>IP Stream</li> </ul> System Network Date   Time Password Save   Restore Backup   Load		Π	ime: 0	: 4	: 25		
<ul> <li>Program Parse</li> <li>IP Stream</li> </ul> System Network Date   Time Password Save   Restore Backup   Load							
IP Stream      System      Network      Date   Time      Password      Save   Restore      Backup   Load	DISS					Apply	
System         Network         Date   Time         Password         Save   Restore         Backup   Load							
<ul> <li>Network</li> <li>Date   Time</li> <li>Password</li> <li>Save   Restore</li> <li>Backup   Load</li> </ul>	IP Stream						
Date   Time     Password     Save   Restore     Backup   Load	System						
Date   Time     Password     Save   Restore     Backup   Load	Network						
<ul> <li>Save   Restore</li> <li>Backup   Load</li> </ul>	Date   Time						
Backup   Load							
	Save   Restore						
	Backup   Load						
▶ Firmware	Firmware						



#### System → Password:

From the menu on left side of the webpage, clicking "Password", it displays the screen as Figure-15 where to set the login account and password for the web NMS.

Tuner to IP Gate	eway(SPTS)		
Veb Management			2018-01-03 15:55:56 [EN 中文] [Exit]
Summary  Status  Parameters	PASSWORD		
<ul> <li>Tuner Input</li> <li>ASI Input</li> <li>TS Config</li> </ul>		make the device safely. If forget the name or password d password is "admin". Also please note the capital ch	
<ul> <li>Biss</li> <li>SPTS select</li> </ul>	Current UserName: Current Password:	admin	
System  Network Password	New UserName: New Password:		
<ul> <li>Save   Restore</li> <li>Backup   Load</li> <li>Firmware</li> </ul>	Confirm New Password:		Apply

Figure-15

#### System → Save/Restore:

From the menu on left side of the webpage, clicking "Save/Restore", it displays the screen

as Figure-16 where to save or restore your configurations.

welcome to use V	2018-01-03 15:56:06 <b>[EN 中文] [Ex</b>
Summary Status	SAVE CONFIGURATION
Tuner Input     ASI Input	When you change the parameter, you shoud save configuration , otherwise the new configuration will lost after reboot.
<ul> <li>TS Config</li> <li>Biss</li> <li>SPTS select</li> </ul>	RESTORE CONFIGURATION Save config
System Network Password	Load latest saved configuration, after click the "Restore" then please click the "Save config" button, otherwise the "Restore" parameter will lost after reboot.
Save   Restore     Backup   Load     Firmware	FACTORY SET
	Set all configuration back to default, after click the "Factory Set" then please click the "Save config" button otherwise the default parameter will lost after reboot.
	Factory set

Figure-16

#### System → Backup/Load:

From the menu on left side of the webpage, clicking "Backup/Load", it displays the screen as Figure-17 where to backup or load your configurations.

Tuner to IP Gate	way(SPTS)
e Web Management	2018-01-03 15:56:16 [EN  中文] [Exit]
Summary  Status	BACKUP CONFIGURATION
Parameters  Tuner Input ASI Input TS Config Biss SPTS select	Backup current configuration to the local file, we suggest do this before set the configuration or update firmware.           Backup config           LOAD CONFIGURATION
System Network Password Save [Restore Backup   Load Firmware	Load the backup file to restore your configuration. Warning: 1. New configuration will replace the old one please backup current configuration before load file. If you use a wrong file, the device may not work. 2. Please do not turn off the power while file loading, otherwise the device will not work.
- I MINUG	<b>浏览</b> 未选择文件。 Load config

Figure-17

## System → Firmware:

From the menu on left side of the webpage, clicking "Firmware", it displays the screen as Figure-18 where to update firmware for the device.

Tuner to IP Gatew	ay(SPTS)	
welcome to use		2018-01-03 15:56:26 [EN   中文] [Exit]
Summary Status	FIRMWARE	
Parameters  Tuner Input ASI Input TS Config Biss SPTS select	<ul> <li>Warning:</li> <li>1. Update firmware(software and hardware) to get new function,please choose th update. If you use a wrong file, the device may not work.</li> <li>2. Update will keep a long time,please do not turn off the power, otherwise the de 3. After update, you must reboot device manually.</li> </ul>	vvice will not work.
System Network Password Save   Restore Backup   Load Firmware	Work Mode: SPIS Current Software Version: Current Hardware Version: 別览 別览 別览 新述序文件,	Select IP output Mode, click "Apply" and reboot the device then the new mode can start to work.
		[Update]

Figure-18

## **Chapter 4 Troubleshooting**

SOFTEL's ISO9001 quality assurance system has been approved by CQC organization. For guarantee the products' quality, reliability and stability. All SOFTEL products have been passed the testing and inspection before ship out factory. The testing and inspection scheme already covers all the Optical, Electronic and Mechanical criteria which have been published by SOFTEL. To prevent potential hazard, please strictly follow the operation conditions.

#### **Prevention Measure**

- Installing the device at the place in which environment temperature between 0 to 45 °C
- Making sure good ventilation for the heat-sink on the rear panel and other heat-sink bores if necessary
- Checking the input AC within the power supply working range and the connection is correct before switching on device
- Checking the RF output level varies within tolerant range if it is necessary
- Checking all signal cables have been properly connected
- Frequently switching on/off device is prohibited; the interval between every switching on/off must greater than 10 seconds.

#### Conditions need to unplug power cord

- Power cord or socket damaged.
- Any liquid flowed into device.
- Any stuff causes circuit short
- Device in damp environment
- Device was suffered from physical damage
- Longtime idle.
- After switching on and restoring to factory setting, device still cannot work properly.
- Maintenance needed

## **Chapter 5 Packing list**

- SFT3508B Tuner to IP gateway
- User's manual
- Grounding cable
- RF In and Loop Out Cable
- Power cord