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SFT3536S Encoder Modulator DVB-C User Manual



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About This Manual

Intended Audience

This user manual has been written to help people who have to use, to 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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Chapter 1 Introduction

1.1 Product Overview

SFT3536S is a professional high integration device which includes encoding, multiplexing, and modulation. It supports 8/16/24 HDMI inputs, 1 ASI input, 1 USB payer input and 128 IP inputs via the GE port. It also supports DVB-C RF out with 12 non-adjacent carriers, and supports 12 MPTS as mirror of 12 carriers through the GE port and 1 ASI out (optional) as mirror of one of the carriers. This full function device makes it ideal for small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment...

1.2 Key Features

- 8/16/24 HDMI inputs, MPEG-4 AVC/H.264 Video encoding
- 1 ASI input for re-mux
- 1 USB Player (Insert the USB Flash drive with "xxx.ts" videos in SFT3536S and play back the content in an easy way; file system FAT 32.)
- 128 IP input over UDP and RTP via GE port
- Each carrier out channel processes maximum 32 IP inputs from the GE port(UDP&RTP protocol)
- MPEG1 Layer II, LC-AAC and HE-AAC Audio encoding, AC3 Pass Through and audio gain adjustment
- Support 12 groups multiplexing/DVB-C modulating
- Support 1 ASI out as mirror of one of RF output carriers---Optional
- Support 12 MPTS IP output over UDP, RTP/RTSP
- Support LOGO, Caption and QR code insertion(Language Supported: 中文, English, pусский, العربية, for more languages please consult us···)
- Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting
- Control via web management, and easy updates via web

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1.3 Specifications

	8/16/24 HDMI inputs for option						
Tarawa (1 ASI in for re-mux						
Input Video Audio Multiplexing	1 USB Player input for re-mux						
	128 IP input over UDP and RTP, GE port, RJ45						
			1920×1080_60P, 1920×10	080_60i,			
		T .	1920×1080_50P, 1920×10	080_50i,			
Video		Input	1280×720_60P, 1280×720	0_50P,			
	Resolution		720×576_50i,720×480_6	0i,			
			1920×1080 30P, 1920×1080 25P,				
Input Video Audio Multiplexing Modulation		Output	1280×720 30P. 1280×720 25P.				
		1	720×576 25P.720×480 30P.				
	Encoding	MPEG-4 AVC/H.264					
	Bit-rate	1Mbps~13Mbps e	each channel				
Input Video Audio Multiplexing Modulation	Rate Control	CBR/VBR					
	GOP Structure	IPP (P Frame a	djustment, without B Frame	e)			
	Encoding	MPEG-1 Layer 2,	, LC-AAC, HE-AAC and A	C3 Pass through			
Audio	Sampling rate	48KHz					
	Resolution	24-bit					
	Audio Gain	0-255 Adjustable					
	MPEG-1 Layer 2	49/56/64/99/06/11	12/122/1 (0/102/224/25(/22	0/20411			
	Bit-rate	48/30/04/80/90/1	12/128/160/192/224/256/32	0/384 kbps			
	LC-AAC Bit-rate	48/56/64/80/96/112/128/160/192/224/256/320/384 kbps					
	HE-AAC Bit-rate	48/56/64/80/96/112/128 kbps					
Input Video Audio Multiplexing Modulation	Maximum PID	255 immet non shormal					
	Remapping	233 input per cha	lillet				
Multiplexing		PID remapping (automatically or manually)					
	Function	Accurate PCR adj	justing				
		Generate PSI/ SI	table automatically				
		OAM Channel	12 non-adjacent carriers output (maximum				
		QAM Channel	bandwidth 192MHz)				
Audio Multiplexing Modulation		Standard	EN300 429/ITU-T J.83A/	В			
		MER	≥40db				
		RF frequency	50~960MHz, 1KHz step				
Modulation	DVB-C	RF output level	-20~+3dbm, 0.1db step				
		Symbol Rate	5.0Msps~7.0Msps, 1ksps stepping				
			J.83A	J.83B			
		Constellation	16/32/64/128/256QAM	64/256 QAM			
		Bandwidth	8M	6M			

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Stream output	1 ASI output as mirror of o 12 MPTS output over UDP 1*1000M Base-T Ethernet	ne of RF output carriers(Optional) and RTP/RTSP as mirror of 12 DVB-C carriers, interface, GE port			
System function	Network management (WEB)				
	Chinese and English langua	age			
	Ethernet software upgrade				
	Dimension (W×L×H)	482mm×328mm×44mm			
Miscellaneous	Environment	0~45°C(work); -20~80°C (Storage)			
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz			

1.4 Principle Chart



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1.5 Appearance and Description

Front and Rear Panel Illustration



1	Power supply and Grounding Pole
2	Power Indicator
3	ASI out (Optional)
4	ASI in
5	HDMI inputs
6	DATA: IP input and output port(GE)
7	NMS (Network management port)
8	USB Port(TS playing)
9	RF test and RF out port

Chapter 2 Installation Guide

This section is to explain the cautions the users must know in some case that possible injure may bring to users when it's used or installed. For this reason, please read all details here and make in mind before installing or using the product.

2.1 General Precautions

- ✓ Must be operated and maintained free of dust or dirty.
- ✓ The cover should be securely fastened, do not open the cover of the products when the power is on.
- ✓ After use, securely stow away all loose cables, external antenna, and others.

2.2 Power precautions

- \checkmark When you connect the power source, make sure if it may cause overload.
- ✓ Avoid operating on a wet floor in the open. Make sure the extension cable is in good condition
- \checkmark Make sure the power switch is off before you start to install the device

2.3 Device's Installation Flow Chart Illustrated as following



2.4 Environment Requirement

Item Requirement Machine Hall When user installs machine frame array in one machine Space the distance later area		
Machine Hall	When user installs machine frame array in one machine hall,	
Space	the distance between 2 rows of machine frames should be	

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	1.2~1.5m and the distance against wall should be no less than 0.8 m.		
	Electric Isolation, Dust Free		
Machine Hall Floor	Volume resistivity of ground anti-static material: $1X10^7 \sim 1X10^{10}\Omega$, Grounding current limiting resistance: $1M\Omega$ (Floor bearing should be greater than 450Kg/m^2)		
Environment	$5 \sim 40^{\circ}$ C(sustainable), $0 \sim 45^{\circ}$ C(short time),		
Temperature installing air-conditioning is recommended			
Relative Humidity	20%~80% sustainable 10%~90% short time		
Pressure	86~105KPa		
Door & Window	Installing rubber strip for sealing door-gaps and dual level glasses for window		
Wall	It can be covered with wallpaper, or brightness less paint.		
Fire Protection	Fire alarm system and extinguisher		
Power	Requiring device power, air-conditioning power and lighting power are independent to each other. Device power requires AC 110V \pm 10%, 50/60Hz or AC 220V \pm 10%, 50/60Hz. Please carefully check before running.		

2.5 Grounding Requirement

- ✓ All function modules' good grounding is 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.
- ✓ 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.
- \checkmark 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 25 mm².

Chapter 3 WEB NMS Operation

Users 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 this device's IP address; otherwise, it would cause IP conflict.

3.1 Login

The default IP address of this device is 192.168.0.136.

Connect the PC (Personal Computer) 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 1 to 254 except 252 to avoid IP conflict).

Use web browser to connect the device with PC by inputting the Encoder & Modulator'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.

2	http://192.168.0.136 正在请求您的用户名和密码。该网站说:"Webserver
●	admin
密码:	•••••
	· · · · · · · · · · · · · · · · · · ·

Figure-1

3.2 Operation

Summary → Status

When we login into encoder modulator, it displays the status interface as Figure-2.

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underson de surce à					
immary					
Status	Device Information				
Parameters					
Total and	System Information			I. I.	
Encoder (01-06)		Software Version:	01.00.23 Build 160.00 Apr 1 2021		
ncoder (17-24)		ardware Version:	02.00.21	1	
S Config		Web Version:	1.05	1	
Modulator		System Version:	1 35 36 03	I. I.	
IP Stream		Dreduct ID:	00252500 0000010 0000000 0000000	1	
SB Media		Fiolact ID.	0.0	1	
stem		Uptime:	0 Day-00:13:37	1	
Network		Temperature:	48.72 Degree Celsius	1	
Password		VccInt:	1036.38 mV	1	
Configuration		VccAux:	1810.55 mV	1	
Firmware		VccBRam:	1037.84 mV	1	
od					
			Current coffware ve	reion information	
11.1	1 4 4		Current software ve		
an click any iten	i here to enter				
rresponding inter	tace to check				
	4				
nation or set the pai	rameters.				

.

Parameters \rightarrow Encoder(01-08)

From the menu on left side of the web page, clicking "Encoder(01-08)", it displays the information of each encoding channel from the encoder as Figure-3.

		Encoder-Enc Ci				
		Enc Old				
		Enc CH 1				
		Enc CH 2				
		Enc CH 3				
		Enc CH 4				
		Enc CH 5				
		Enc CH 6				
		ET CH 7				
		Inc CH 8				
Encoder Modulator						
use Web Management						
Summary	Encoder Module					
▶ Status		_/				
Parameters						
Encoder (01-09)	Encoder-Enc (CH 1+ OSD				
Encoder (09-16)						
Encoder (17-24)	Video					
TS Config		(1998)	D 1	Comp. Descenter		
Modulator	Rate Mode:	CBR	Ditrate:	4.00 (1~13 MI	lops)	Companyl sottings for
► USB Media	H.264 Profile:	Baseline Profile -	Gop Size:	25 (25-50)		General settings for
Sustem	Out Resolution:	Auto				the Encoding programs
System	Audio					the Encoding program.
Network	Format:	MPEG1 Layer2 -	Bitrate:	128 Kbps 👻		Usen son adit any item
 Configuration 	Audio Gain:	128 (0 ~ 255)	Audio Samplerate:	Auto	i i	User can edit any item
▶ Firmware	Audio Delay Mode:	Mode 1			i i	listed as meeded
Date Time						listed as needed.
► Log	Program					
	Share PCR PID:	E				
	Status					
	Encoder Chip Versio	n: 11.07.12	Input Lock:	•		
	Input Information:	1920x1080 59.94P	Bitrate:	4.664 Mbps		
	Bitrate: 0.000MI	ops				
	6.000M					
	5.400M		100 000	a bill de 💦 🔨		
	4.800M 4.200M		1 Annull 1			
	3.600M		in the facility	an all the Area	X	
	3.000M					
	1.800M				Users can cl	neck the input
	1.200M		μ		look status 1	ait rata Status
	0.600M				TOCK Status,	on fale Status,
	A. ASSAN				encoder v	version and
			•	1	resolution et	c information.
		Figure-	3			
	i	-				
	i					

Encoder(01-08) \rightarrow OSD:

Clicking "OSD", it displays the interface as Figure-4/5/6 where to set Logo/ Caption/ QRCode parameters.



Figure-5

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Modulator		
Web Management Summary Status Parameters Encoder (01-09) Encoder (00-16)	Encoder Module Encoder - OSD	2021-03-02 14:24:18 [EN
Encoder (17-24) TS Confg Modulator JP Stream USB Media System Network Password Confguration Firmare Date Time Log	Log Caption ORCode Inc CH1 Inc CH2 Enc CH3 Enc CH4 Enc CH5 Enc CH7 Enc CH7 Enc CH3 All Video formation 100000 59.94 Inc CH1 Inc CH2 Enc CH3 Enc CH3 <td< td=""><td></td></td<>	

Figure-6

Parameters \rightarrow Encoder(09-16)

From the menu on left side of the web page, clicking "Encoder(09-16)", it displays the information of each encoding channel from the encoder as Figure-7.

Encoder Module					
Encoder module					
Encoder	-Enc CH 9 - OSD Syst	tem Firmw	are		
1					
Video					
Rate Mode:	CBR	-	Bitrate:	4.00	(1 ~ 13 Mbps)
H.264 Profile:	Baseline Profile	•	Gop Size:	25	(25-50)
Out Resolutio	n: Auto	•			
Audio					
Addio					
Format:	MPEG1 Layer2	•	Bitrate:	128 Kbps	•
Audio Gain:	128	(0 ~ 255)	Audio Samplerate:	Auto	•
Audio Delay M	lode: Mode 1	•			
Program					
Program Outp	ut: 💟		Service Name:	TV-101	
Service Provi	ler: TV-Provider		Program Number:	101	
PMT PID;	0x0064		PCR PID:	0x0067	
Video PID:	0x0065		Audio PID:	0x0066	
Character End	odina: GBK		Share PCR PID:		
				-	
Status					
Encoder Chip	Version: 11.07.12		Input Lock:	•	
Input Information	ion: 1920x1080 59.94P		Bitrate:	4.180 Mbps	
Bitrate: (.000Mbps				
5 0001					
5,400M					
4.800M					
4.200M				M	
3.600M					

Figure-7

Encoder (09-16) \rightarrow OSD

OSD setting is same as the one in the encoder(01-08).

	SFT3536S Encoder Modulator DVB-C User Manua	1
ncoder Modulato	r	
t		
ummary		
Status	Encoder Module	
rameters	Encoder- OSD System Firmware	
Encoder (01-08)	Encoder da aysteriu rhinware	
Encoder (09-16)		
TS Config		
Vodulator	Logo Caption ORCode Enc CH 9 Enc CH 10 Enc CH 11 Enc CH 12 Enc CH 13 Enc CH 14 Enc CH 15 Enc CH 16 ALL	
P Stream		
JSB Media	Video Format 1920x1080 59.94P	
tem	Logo Size 0x0	
stem	Lege (X, Y) : $(0, 0)$	
Network	Alpha (0-128) 128	
Password	Laver(1-6) 1 Empty	
Configuration	Move Direct Static	
Firmware	Move Start Fos 0	
Date Time	Slide Interval(a) 3	
LOG	Market Trick Strack	
	3034 TRUSEXIT* Usesce	
	NO image nere:	
	date Refresh Delete Apply DelAll	

Figure-8

Encoder (09-16) \rightarrow System

Under System page, users can check the software version information of the encoder module, save, restore or load factory set the module configuration.

Encoder Modulator						
Status	Encoder Module					
Parameters Encoder (01-08) Encoder (09-18)	Encoder-	OSD System Firmware				
Encoder (17-24)	Module Info.					
Modulator	Software Version: System Version:	01.01.25 Build 153.00 2.02.1.62	Hardware Version: Module ID:	00.01.37 1		
System	Module Configuration					
Network Password					Save config Resto	re Factory set
Firmware	DATA					
Date Time Log	IP Address: Gateway:	192.168.0.137 192.168.0.1	Subnet Mask: MAC Address:	255.255.255.0 20:20:12:34:56:79		
						Apply

Figure-9

Encoder (09-16) \rightarrow Firmware

Under the Firmware page, users can update the software for the encoder module.

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Encoder Modulator	
o Management	
Summary	Encoder Module
Parameters Encoder (01-08) Encoder (09-18)	Encoder+ OSD System Firmware
Encoder (17-24) TS Config Modulator IP Stream USB Media	Warning: 1. Upgrade firmware(software and hardware) to get new function please choose the right firmware to upgrade. If you use a wrong file, the device may not work: 2. Upgrade will keep a long time, please do not turn off the power, otherwise the device will not work. 3. After upgrade you must reboot device manually.
System Network Password Configuration Firmware Date [Time	Current Software Version: 01.01.25 d01 Build 153.00 Mar 26 2021-13.27.03 Current Hardware Version: 00.01.37 问题E
▶ Log	Bygrade

Figure-10

Parameters \rightarrow Encoder(17-24)

Encoder (17-24) shares the same configuration steps with encoder (09-16).

Interview	oder Modulator					
<pre>miny ints ints ints ints ints ints ints ints</pre>	Icome to use Web					
Image: Section Sect	arv					
s clcis def(01-05) obder(07-05) obder(17-24) Obder Modia M		Encoder Module				
eder (0-10) oder (0-10) oder (0-10) oder (0-12-24) sondg sondg valabri ream Modia Modia Modia okk word Audio Gain: 128 okk word Audio Gain: 128 (0 - 250) Audio Samplerate: Audio Gain: 128 (0 - 250) Audio Samplerate: Program Number: Program Pro	15					
der (01-08) der (03-06) oder (03-06) System Firmware video Rate Mode: DBR Bitrate: 1.00 (1 - 13 Mbps) video Rate Mode: DBR Bitrate: 1.00 (1 - 13 Mbps) video Rate Mode: DBR Bitrate: 1.00 (1 - 13 Mbps) video Note Dot Session Dot Session Dot video Note Dot Dot Session Dot	eters					
Video nong latar kator weam Media Out Resolution: Rate Media Drive Media	der (01-08)	Encoder-Enc CH	17 - OSD System Firr	nware		
sider 100-00 sider Rate Mode: CBR Birrate: 4.00 (1 - 13 Mbps) Bader Bader Gop Size: 2 s (25-00) Out Resolution: Auto - - - Audio Gain: Auto - - - - Service Name: 128 (0 - 255) Audio Samplerate: Auto - Imme Format: MEE01 Layer2<	der (09-16)					
Rate Mode: DE Birate: 4.00 H.284 Profile: Baseline Profile: Out Resolution: Auto	oder (17-24)	Video				
idior bitalor bita	onfig	P		Dia		
dami R.264 Profile: Bealine Frofile - Gop Size: 25 (25-50) Out Resolution: Auto Audio prink MEEOI Layer2 • Audio Samplerate: Auto • Audio Deley Mode: Mode 1 • • Program Output: Imme Program Output: Imme Program Output: Video PID: 0x0065 Audio PID: Video PID: 0x0055 Audio PID: Out Status 101 Encoder Chip Version: 110: 101 Program Sumplerate: 101 PMT PID: 0x0055 Character Encoding: 68E Birate: 0x0055 Birate: 102 Deley Information: 1920x1080 59 34P Birate: 110 Birate: 0x00Mbps Status Birate:	ilator	Kate Mode:	CBR	bitrate:	4.00	(1 ~ 13 Mbps)
Audio Out Resolution: kuto prod Pormat: MEE01 Layer2 adio Gain: 128 adio Gain: 128 adio Deley Mode: Mode 1	Vadia	H.264 Profile:	Baseline Profile -	Gop Size:	25	(25-50)
Audio brk word guration audio Gain: 128 Audio Gain: 128 Audio Delay Mode: Mode 1 Time Program Program Viteo 1 Program Viteo 1 Service Provider: TV-101 Service Provider: TV-101 Service Provider: Program Number: Video PID: 0x0065 Video PID: 0x0065 Character Encoding: BK Statue Encoder Chip Version: Bitrate: 1001 Bitrate: 1001 Statue Encoder Chip Version: Bitrate: 1001 Bitrate: 0000159.34P Bitrate: 0x0066 Character Encoding: BK Statue Encoder Chip Version: Bitrate: 000011000 59.34P Bitrate:	vicula	Out Resolution:	Auto 👻			
wk word word word audio Gain: 128 audio Gain: 128 audio Deley Mode: Wace 1 Program Birrate: 1000000000000000000000000000000000000		Audio				
word Format: MEE01 Layer2 Birate: 128 Kppa Audio Gain: 128 (0 - 255) Audio Samplerate: Audio are Audio Delay Mode: 100 - 1 Imme Program Output: I Program Output: I Service Name: Trop 0x0064 PCR PID: Ox0065 Audio PD: 0x0066 Character Encoding: 6ER Status Status	ork					
guration Audio Goin: 128 (0 ~ 255) Audio Samplerate: Auzo adre Audio Delay Mode: Mode 1 . Audio Samplerate: Auzo . Time Program Mude 1 Program Output Mode 1 Program Output Service Provider: TV-101 . </td <td>word</td> <td>Format:</td> <td>MPEG1 Layer2 -</td> <td>Bitrate:</td> <td>128 Kbps</td> <td>•</td>	word	Format:	MPEG1 Layer2 -	Bitrate:	128 Kbps	•
Ime Audio Delay Mode: kode 1 Program Audio Delay Mode: kode 1 Program Service Name: TV-10.1 Service Provider: TV-50°vider: Program Number: PMT PDI: 0x0064 PCR PDI: 0x0076 Video PDI: 0x0065 Audio PDI: 0x0066 Character Encoding: 68/K Share PCR PDI: = Status Encoder Chip Version: 11.07.12 Input Lock: € Input Information: 1920:1080 59.94P Bitrate: € Bitrate: 0.00Mbps € € Stool 5.0001 5.0001 € Stool 5.0001 5.0001 5.0001 5.0001 Stool 5.0001 5.	guration	Audio Gain:	128 (0~255)	Audio Samplerate:	Auto	
Ime Program Program Output: Image: Service Name: TV-101 Service Provider: TV-2rovider Program Number: 101 PMT PID: 0x0064 PCR PID: 0x0066 Character Encoding: 088 Share PCR PID: 0x0066 Character Encoding: 088 Share PCR PID: 0x0066 Status Encoder Chip Version: 1107.12 Input Lock: Input Information: 1920x1080 59.94P Birrate: Ctast Mage Encoder Chip Version: 1.920x1080 59.94P Birrate: Ctast Mage	rare	Audio Delay Mode:	Mode 1 👻			
Program Output: Image: Service Name: TV-101 Service Provider: TV-Provider Program Number: 101 PMT PID: 0x0064 PCR PID: 0x0067 Video PID: 0x0065 Audio PID: 0x0066 Character Encoding: GBR Share PCR PID: Image: Share PCR PID: Status Encoder Chip Version: 11 07 12 Input Lock: Input Information: 1920/1080 59.34P Bitrate: 350 Mage Elstrate: 0.000Mbps Service	Time	Program				
Program Output: IV Service Name: TV-101 Service Provider: TV-520vider: Program Number: 101 PMT PiD: 0x0064 PCR PiD: 0x0066 Character Encoding: 08K Share PCR PiD: 0x0066 Character Encoding: 08K Share PCR PiD: 0 Status Input Lock: Input Lock: Input Lock: Bitrate: 000Mbps Status Input Lock: Bitrate: 000Mbps Input Lock: Input Lock: Bitrate: 000Mbps Input Lock: Input Lock: Bitrate: 000Mbps Input Lock: Input Lock:		riogram				
Service Provide:: TV-Brovide:: Program Number: 101 PMT PID:: 0x0064 PCR PID: 0x0067 Video PID: 0x0065 Audio PID: 0x0066 Character Encoding: 088 Share PCR PID: Status Status Encoder Chip Version: 11.07.12 Input Lock: Input Information: 1920x1080 59.94P Birrate: 4533 Mags Birrate: 0.000Mbps 		Program Output:	V	Service Name:	TV-101	
PMT PID: 0x0064 PCR PID: 0x0067 Video PID: 0x0065 Audio PID: 0x0066 Character Encoding: GBR Share PCR PID: Image: Control of Cont		Service Provider:	TV-Provider	Program Number:	101	
Video PID: 0x0065 Audio PID: 0x0066 Character Encoding: 988 Share PCR PID: - Statue Encoder Chip Version: 11 07 12 Input Lock: Input Information: 1920:1080 59.94P Bitrate: •		PMT PID:	0x0064	PCR PID:	0x0067	
Character Encoding: GBIX Share PCR PID: Status Encoder Chip Version: 11:07.12 Input Information: 1920x1080 59.94P Bitrate: Bitrate: 0 0000 5 40001 4 30000		Video PID:	0x0065	Audio PID:	0x0066	
Status Encoder Chip Version: 11.07.12 Input Lock: Input Information: 1920x1080 59.94P Birrate: Encoder Chip Version: 1920x1080		Character Encoding:	GBK -	Share PCR PID:	8	
Encoder Chip Version: 11:07:12 Input Lock: Input Information: 1920x1080:59:94P Birrate: Birrate: 0:000Mbps Birrate: 0:000Mbps 4:000M 4:00M 4:000M 4:00M 4		Status				
Input Information: 1920x1080 59.94P Birrate: 4x538 Mage Birrate: 0.000Mbps 6.000M 5.400M 4.300M 4.300M		Encoder Chip Version:	11 07 12	Input Lock:		
Elivate: 0.000Mbps 6.000M 5.400M 4.000M		Input Information:	1920v1080 59 94P	Bitrate	4 179 Mbos	
Birate: 0.000Mbps 600M 5400 400		input mornadon.	13200 1000 33.34	binute.	a, too more	
6 0004 5 4004 4 0004 4 2004		Bitrate: 0.000Mbps				
5 400M 4 000M 4 300M		6.000M				
4.800M 4.2004 7.8004		5.400M				
4.200M		4.800M				
4 1940		4.200M 3.600M			(

Figure-11

Parameters → TS Config:

From the menu on left side of the webpage, clicking "TS Config", it displays the interface where users can configure the TS output parameters.

➤ TS Config→Output TS X:

Clicking "**Output TS X**", it displays the interface where users can select the TS output carrier (Figure-12)





➤ TS Config→Stream select:

Clicking "Stream select", it displays the interface where users can select program(s) to multiplex out and modify program info. (Figure-13)

Output TS 1+	Stream Select	General PID Bypass	Event Rating Region	
≣ + / × 💼				
Lose → Locked →CH1_Encoder (01-08) (p →CH2_Encoder (09-16) (p →CH3_Encoder (17-24) (→CH4_US8 (prog. 0) →CH5_ASI 1 (prog. 0) →CH6_GE_DATA1_224.2.	rog: 4/8) rog: 1/8) prog: 1/8) 2.2:1001 (prog: 0)	[9.1/9.1M] [5.0/50.0M] [2] CA Filte [5.1/50.0M] [0.0/0.0M] [2] PID Ren [0.0/0.0M] [2] PID Ren [0.0/0.0M] [2] Refresh in [0.0/0.0M] [2] Refresh in [2] Refresh Ou	→ Normal → Overflow → Over	[17.4/38.0M]]]]]]
Inpu	ıt Area	All Input All Outpu	Output Area	
Parse-Select all(SPTS) Parse	program time o	ut: 60 seconds		

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Input	IP Stream Config.			[close]	
→CH1 Encoder1	Data Interface:	GE_DATA1	•		
⇒CH2_Encoder (C	Unicast:				
⇒CH3_Encoder (1 ⇒CH4_USB (prog	IP Address:	224.2.2.2			
-CH5_ASI 1 (prog	Port.	1001	_		
-rund_oc_unini	End Port	1032			
	IGMP Snooping	Off	•		
	Protocol	UDP			
	Auto Bitrate:				
				Add Close	
				_	
				Add the IT	immut stresses



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

 \rightarrow Lose \rightarrow Locked : To check source streams locked or not, green means current source streams locked

→Normal → Overflow : To check current TS overflowing or not, red color means current TS

overflowing, need reduce program

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

^I PidRemap</sup> : 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

Program Modification:

The multiplexed program information can be modified by clicking the program in the 'output' area. For example, when clicking TV-101 <=CH1_Encoder (01-08) [101], it triggers a dialog

Program From Input:	CH1_Encoder (01	-08) [101]
Service Name:	TV-101	
Major Channel Number:	1	
Minor Channel Number:	1	
Source Id:	1	
Short Name:	prog1	
Program Number:	1001	
Logic Channel Number:	1	
Service Type:	0x01	
Service Provider:	TV-Provider	
PMT Descriptor Tag:	🗐 0x00	
PMT Descriptor Data:		(Hex)
PMT PID:	0x0020	
PCR PID:	0x0021	
MPEG-4 Video PID: 🗹	0x0022	
MPEG-1 Audio PID: 🗵	0x0023	

box (Figure-14) where users can input new information.



➤ TS Config→General:

From the TS Config menu on up side of the webpage, clicking "General", it displays the interface where users can enable PSI/SI table out and insert NIT etc. (Figure-15)

Outp	out TS 1+	Stream Select	General	PID Bypass Event	Rating Region	
stream						
Output Mo	ode:	Mux out	•	PAT Insert:	V	
PMT Inser	t	V		SDT Insert:	V	
BAT Insert	t	V		Share BAT:	Disable	*
CAT Insert	t	3		Fixed Table Version:		
TS ID:		1		ON ID:	1	
PCR Corre	ect	V		PCR Speed BW	3	-
PCR State	BW	3	•	PCR Compensate	0	
Character	Encoding:	NORMAL		IGMP Interval:	5	(5s~120s)
NIT						
NIT Insert		Not insert	•	Share NIT:	Disable	 Image: A set of the set of the
VCT						
VCT Inser	t:			VCT Mode:	CVCT	*
Modulatio	n Mode:	4		Carrier Frequency:	500.000	(30-1000MHz)
TDT/TOT						
TDT/TOT I	insert:			TOT Descriptor Insert:	disable	•
IPTV Sync(SPT	S)					
IPTV Sync				Sync Period:	200	Sec

Figure-15

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> TS Config \rightarrow PID Bypass:

λ.

Users can bypass the wanted PIDs here.

'S Config						
	Output TS 1+	Stream Select	General PID Bypass	Event	Rating Region	
1	Index Input Char	nel Input PID(0x)	Output PID(0x) +			
						Set Del-All

.....

Figure-16

> TS Config \rightarrow Event:

Users can edit the event information for the selected information as the below picture shows.

TS Config

OL	itput TS 1-	Stream Select	General	PID Bypass	Event	Rati	ng Regio
Select I	^o rg.:	1:TV-101					
+	â						
+ Index	Event ID	Start Time	Duration(sec)	Title		1	1

Figure-17

Cor ct Prg.:	nfiguration					[clos
10	Event ID:	0x0002				
00	Start Time:	2021/06/0	3-15:32:25			
	Duration(sec):	3600				
	Title:					
Index	Dimension Name		Value		+	
1	EntireAudience	-	None	•	a	
	EntireAudience					
	Dialogue				Set	Del-All
	Language					-
	Sex					
	Violence					
	Children					
	FantasyViolence					
	MPAA					

Select Pra.:	Con	figuration				[C	los
R 💼		Event ID:	0x0002				
1 0x00		Start Time:	2021/06/0	3-15:32:25			
		Duration(sec):	3600				
		Title:					
	Index	Dimension Name		Value		+	
	1	EntireAudience	•	None	-	â	
				None			
				TV-G		Set Del-4	AII
				TV-PG			
				TV-14			

Figure-18

➤ TS Config → Rating Region:

Users can edit the Rating Region options for Event as the below picture shows.

TS Config

Ou	itput TS 1+	Stream Select	General PID By	pass Eve	ent	Rating Reg
+ 1	â					
Index	Dii	mension Name	Graduated Scale	Rating Num	1	a
1	EntireAudience	r.	1	6	1	Û
2	Dialogue		0	2	1	â
3	Language		0	2	1	â
4	Sex		0	2	1	Î
5	Violence		0	2	1	â
6	Children		1	3	1	â
7	FantasyViolen	ce	0	2	1	â
8	MPAA		1	9	1	â



Parameters → **Modulator**:

Clicking "Modulator", it displays the Modulator Configuration screen as Figure-20. SFT3536S supports 12 DVB-C frequencies out. Here user can set modulation parameters, such as level and frequency etc.

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Parameters → IP Stream:

SFT3536S supports 12 TS to output in IP format through the DATA port under DVB-C

modulation.

Clicking "IP Stream", it displays the interface where to set IP out parameters (Figure-21).

welcome to use Wet										
status	IP Stream(GE_DATA1	0								
Parameters	Channel Inf	o.(Alarm/Active/Total): 0/	1/12							
Encoder (01-08) Encoder (09-16)	#	IP Address	Port	Protocol	Pkt Length	Null PKT Filter	Status	Bit(Act/Max)	1	Quickly Cor
Encoder (17-24)	1	224.2.2.2	2001	UDP	7		•	19.5/38.0 M	1	
Modulator	2	224.2.2.2	2002	UDP	7	8		0.0/38.0 M	1	
USB Media	3	224.2.2.2	2003	UDP	7	10		0.0/38.0 M	2	
ystem	4	224.2.2.2	2004	UDP	7			0.0/38.0 M	1	
Network	5	224.2.2.2	2005	UDP	7	10		0.0/38.0 M	1	
Configuration	6	224.2.2.2	2006	UDP	7	10		0.0/38.0 M	1	
Firmware Date I Time	7	224.2.2.2	2007	UDP	7	23		0.0/38.0 M	1	Channel Co
Log	8	224.2.2.2	2008	UDP	7	13		0.0/38.0 M	1	chainer eo
	9	224.2.2.2	2009	UDP	7			0.0/38.0 M	1	
	10	224.2.2.2	2010	UDP	7			0.0/38.0 M	1	
	11	224.2.2.2	2011	UDP	7			0.0/38.0 M	1	
	12	224.2.2.2	2012	UDP	7	6	٠	0.0/38.0 M	2	
	ASI OUT(OPTION)									

Figure-21

When users click "pen" button, it triggers a dialog box (Figure-22) where users can set the parameters of the corresponding IP output streams.

Quickly Config.			[close]
Enable:	1		
IP Address:	224.2.2.2		
Port:	2001		
Step:	1		
Protocol:	UDP	•	
Pkt Length:	7	*	
Null PKT Filter:			
		1	Apply Close

Channel 1 Config.			[close
Enable:			
IP Address:	224.2.2.2		
Port:	2001		
Protocol:	UDP	•	
Pkt Length:	7	-	
Null PKT Filter:			



When users click "ASI Out" list, users can set one TS out from MPTS 1 to MPTS 12 as the

ASI out	(ASI	out is	optional	as per th	e order).
---------	------	--------	----------	-----------	-----------

welct									
IP St	ream(GE_DATA1)								
3 ······	Channel Info.(Alarm/Active/Total): 0/1	/12						
01-08)	#	IP Address	Port	Protocol	Pkt Length	Null PKT Filter	Status	Bit(Act/Max)	1
17-24)	1	224 2 2 2	2001	LIDP	7			17 9/38 0 M	1
		224.2.2.2	2002	UDD	7		-	0.0/28.0 M	
	2	224.2.2.2	2002	ODP	,			0.0/38.0 M	2
	3	224.2.2.2	2003	UDP	7			0.0/38.0 M	1
	4	224.2.2.2	2004	UDP	7		٠	0.0/38.0 M	1
	5	224.2.2.2	2005	UDP	7	13		0.0/38.0 M	1
on	6	224.2.2.2	2006	UDP	7	10		0.0/38.0 M	1
	7	224.2.2.2	2007	UDP	7			0.0/38.0 M	1
	8	224.2.2 Output	TS1	UDP	7			0.0/38.0 M	1
	9	224.2.2 Output	TS2	UDP	7			0.0/38.0 M	1
	10	224.2.2 Output	T54	UDP	7			0.0/38.0 M	1
	11	224.2.2 Output	TS5	UDP	7			0.0/38.0 M	1
	12	224.2.2 Output	TS7	UDP	7			0.0/38.0 M	1
		Output	TS9						
		Output	TS10						



Parameters → USB Media:

Under USB Media page, user can play the TS files from the USB disk. Play Mode is select-able as the below list shows. After playing the files, the programs in the .ts files can be multiplexed out in TS Config page.

Coder Modulator Immany USB Media Status Pay Mode: Single loop Encoder (10-10) File Status Encoder (10-10) File Status Party Mode: File Status Modulator File Status Date Usage 0000 00 0B File Status Date Usage 0000 00 0B File Status Encoder (10-10) File Status Date Usage 0000 00 0B File Status Encoder (10-10) Termane Date Usage 0000 00 0B File Status Encoder (10-10) Termane Date Usage 0000 00 0B File Status Encoder (10-10) Termane Date Usage 0000 00 0B File Status Encoder (10-10) Termane Date Usage 0000 00 0B File Status Encoder (10-10) Termane Termane Utar Termane Termane Termane Utar Termane Termane Termane Termane Termane Termane Termane Termane Termane Termane Termane </th <th></th> <th></th> <th>SFT3536S Encoder Modulator DVB-</th> <th>C User Manual</th>			SFT3536S Encoder Modulator DVB-	C User Manual
Soder Modulator				
Image: Single loop Image: Single loop Play Mode: Single loop Image: Single loop				
NINSY USB Media Darders Play TS Control (01:00) File Saled: • Incode (02:010) File Saled: • Sorong File Saled: • Sorong Status Carl Status Dat Usage 0000 00 GB Pay Status • Market Time Obt Usage 0000 00 GB Pay Status • Status Dat Usage 0000 00 GB Pay Status • Play Mode: Single Itop Kern Auto Play: Single Itop File Saled: Auto Play: Single Itop Pay al	oder Modulator			
Intary USB Media anterson Pay TS incoder (00-10) Pay TS incoder (00-10) Pay Mode Single Iop incoder (00-10) Pay Balect: incoder (00-10) Pay Mode Single Iop incoder (00-10) Pay al incoder (00-10) Pay al				
Play Mode: Status Play Mode: Single loop Play				
tatas ancles anc	nmary	1100 10 11		
Inteders (01.08) Play T6 Incoder (07.24) Play Mode: Single Isop • S Config Auto Play; S Config Status	tatus	USB Media		
Numbers Sincoder (07-03) Sincoder (07-24) Sording S				
Play Mode: Single loop Play Mode: Single loop Play Mode: Single loop Play Mode: Single loop File Select: Single Single Sin	ameters	Play TS		
Pray Mode: Single loop File Select: Status Status Play Mode: Single loop File Select: Single loop	ncoder (01-08)	a succession de la construcción de	Flav Made Oracle Loss	
Pia y Mode: Single loop Pia y Mode: Single loop	ncoder (09-16)		Play Wode. Single loop +	
Sudial divided and a set of the s	Coofig		File Select:	
Piream SB Media SB Media SB Media Satus Satus Disk Usage 0.000.00 CB Piay Status Rem Piay Mode: Single loop File Select: Single liop Play Mode: Single loop File Select: Single liop Play al	lodulator		Auto Play:	
ISB Media tem tem tem tem tem tem tem te	? Stream			
tem tetwork assword Ondrguration minware ate Time og Play Mode: Single loop File Select Single file Auto Play: Single file Play al	SB Media			Start
Play Mode: Single loop File Select Single file Auto Play: Single boo Play al	tem			
Play Mode: Single loop File Select Single file Auto Play Play al	Cerri Cerri	Status		
Auto Play: Play Inde: Single loop File Select: Auto Play: Single file Auto Play: Play all Single file Single file Auto Play: Single file Auto Play: Single file Play all Single file Single file Si	etwork	status		
Play Mode: Single loop File Select: Single file Auto Play: Single file Auto Play: Single file Auto Play: Single file	assword		Disk Usage:0.00/0.00 GB	
Play Mode: Single loop v File Select Auto Play: Single file Pay al	contiguration		Play Status:	
Play Mode: Single loop File Select: Single loop Play al File Select: Single loop Play al File Select: File S	ate Time			
Play Mode: Single loop 💌 File Select: Single file Auto Play: Single loop Play all	og			Remove D
Play Mode: Single loop File Select Single file Auto Play: Pay al				
Play Mode: Single toop File Select: Single toop Play al Play al File Select: File				
Play Mode: Single loop File Select: Single file Auto Play: Play al				
Play Mode: Single Ioop File Select: Single file Auto Play: Pay al Pay al				
Play Mode: Single loop File Select: Single file Auto Play: Play al Play al				
Play Mode: Single loop File Select: Single file Auto Play: Play al				
Play Mode: Single toop File Select; Single file Auto Play: Play al Play al				
Play Mode: Single loop File Select: Single loop Play al Play al				
Play Mode: Single loop File Select: Single file Auto Play: Play al				
Play Mode: Single loop ▼ File Select: Single file Auto Play: Single hop Play al				
Play Mode: Single loop File Select: Single file Auto Play: Play al Pl				
Play Mode: Single loop 💉 File Select: Single file Auto Play: Single loop Play all				
File Select Single loop Play all	Play Mode: Single Joon			
File Select: Srige ine Auto Play: Srige loop Play al	Circle C	1000		
Auto Play: Single boo Play al	File Select: Single file			
Play all	Auto Play: Single loop			
	Play all			
	Loop of			

Figure-24

Detailed Explanation:

Play Mode: User can select a play mode for the *.ts files as needed before playing the *.ts file and specify a video under 'Single file' / 'Single loop' mode and press "Apply" and "Start" button to start play. While under 'Play all' / 'Loop all' mode, it automatically plays files from first to end. Loop means that it will pay the selected files round.

Auto Play: If ticked, the device will automatically play the .ts files as per the saved setting after reboot.

The .ts files can also be generated by our TS Creator software. If needed, users can contact our technician to get the software.



System → Network:

Clicking "Network", it displays the interface as Figure-25 where to set network parameters.

				SFT3536	6S Encoder	Modulator DV	B-C User M	Aanua
			L.L.L.L.L.L.L.					
lor Modulator								
DV.								
.,	Network							
<u> </u>	-							
ters	NMS							
ler (01-08)			IP Address:	192.168.0.136				
ler (09-16)			Subnet Mask:	255 255 255 0				
ler (17-24)			Gatowaw	402.409.0.4				
onfig			Galeway.	192.168.0.1				
ator			Web Manage Port:	80				
eam			MAC Address:	2a:10:22:1a:06:14				
ledia			DNS Address:	114.114.114.114				
ork								
vord								
uration								
are	DATA							
Time		*	IP Address	Subnet Mask	Gateway	MAC Address	1	
		GE DATA1	400 400 0 400	265 265 255 0	100 100 0 1	D. 00 00 1. 00 11		
		GE_DAIAT	192.168.2.136	255.255.255.0	192.168.2.1	28.20.22.18.06.14	Apply	

Figure-25

System → Password:

Clicking "Password", it displays the screen as Figure-26 where to set the login account and password for the web NMS. Both the current username and password are "admin".

gement	
10000.00/	
ummary	Password
Status	
arameters	
Encoder (01 00)	Modify the login name and password to make the device safely if forget the name or password you can reset it by keyboard. The default login name and password is "admin"
Encoder (01-06)	please note the capital character and lowercase character.
Encoder (17-24)	
TS Config	
Modulator	Current UserName: admin
IP Stream	Current Password:
USB Media	Novi Usedhanay
	new Jaenalite.
stem	New Password:
Network	Confirm New Password:
Password	
* Configuration	
Firmware	
Date Time	
Log	

Figure-26

System → Configuration:

Clicking "Configuration", it displays the screen as Figure-27 where to save/ restore/factory setting/ backup/ load your configurations.

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Encoder Medulator	
Encoder Wodulator	
elcome to use Web Manage	
Summary	Configuration
▶ Status	
Encoder (01-08)	Save Restore Factory Set Backup Load
Encoder (09-16)	
 Encoder (17-24) TS Config 	When you change the parameter, you shoud save configuration ,otherwise the new configuration will lost after reboot.
Modulator IP Stream	
► USB Media	Same config
System	
Network Password	
Configuration Firmware	
Date Time	
Web Management	2021-
Summary	
▶ Status	Configuration
Parameters	
Encoder (01-08)	Save Restore Factory Set Backup Load
Encoder (09-16)	
TS Config	Load latest saved configuration, after click the "Restore" then please click the "Save config" button, otherwise the "Restore" parameter will
Modulator	lost after reboot.
► USB Media	
System	Dechra
▶ Network	No3000
Password	
► Firmware	
Date Time	
- Log	
Encoder Modulator	
welcome to use Web M	
Summary	
▶ Status	Configuration
Parameters	
Encoder (01-08)	Save Restore Factory Set Backup Load
Encoder (17-24)	
Modulator	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.
IP Stream USB Media	
System	Fadory set
Network	
Configuration	
Firmware Date Time	
►Log	
Summary	
▶ Status	Configuration
Parameters	
Encoder (01-08)	Save Restore Factory Set Backup Load
Encoder (09-16)	
Encoder (17-24)	
► Modulator	Backup current configuration to the local file, we suggest do this before set the configuration or update firmware.
► IP Stream	
	Backup config
System	
 Network Password 	
► Configuration	
Firmware Date Time	
► Log	



SFT3536S Encoder Modulator DVB-C User Manual Encoder Modulator ome to use Web Managem mary Su Configuration Status Restore Factory Set Backup Load Save Encoder (01-08) Encoder (09-16) Encoder (17-24) TS Config Modulator Load the backup file to restore your configuration. ew configuration will replace the old one please backup current configuration before load file. If you use a wrong lease do not turn off the power while file loading, otherwise the device will not work. vice may not work IP Stream USB Media Network
Password
Configuration
Firmware
Date | Time
Log 浏览... 未选择文件。

Figure-27

System → Firmware:

Clicking "Firmware", it displays the screen as Figure-28 where to update firmware for the modulator.

Encoder Modulator		
ment		
Summary		
► Status	Firmware	
Parameters Encoder (01-08) Encoder (09-16) Encoder (17-24) TS Config Modulator	Warning: 1. Update the firmware in order to improve the functionality of the device. Please make sure to use the correct firmware file. 2. The update process may take some time, please do not turn off the power during the upgrade. 3. After the upgrade has completed, please manually reboot the device.	
 ▶ IP Stream ▶ USB Media System > Network > Password 	Current Software Version: 01.00.23 Build 160.00 Apr 1.2021 Current Hardware Version: 02.00.21 读现, 未选择文件。	
Configuration Firmware Date Time Log		Upgrade

Figure-28

System→ Date/Time:

From the menu on left side of the webpage, clicking "Date/Time", it will display the screen as Figure-29 where to set date and time for the device.

Encoder Modulato	r.				
nt					
Summary	Data Time				
▶ Status	Date Time				
Parameters					
Encoder (01-08)			1970-01-01 08:31:48		
Encoder (09-16)		Timezone:	(GMT+08:00) Beijing, Chongqing, Hong Kong, U 🔻		
Encoder (17-24)		NTP Server 1:			
► TS Config		NTP Server 2:			
Modulator		NTP Server 3:			
► IP Stream		NTD Comments			
USB Media		NTP Server 4:			
System		NTP Server 5:			
▶ Network				Sal Timesone	Set NTP Lindate from browner
Password				Ser Timezone	Opdate nom beomset
Configuration					
► Firmware					
► Date Time					
► Log					

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Figure-29

.

System→ Log:

Clicking "Log", it displays the log interface as Figure-30 where to check or export the

Kernel/System log.

Encoder Modulator	
welcome to u	
Summany	
Summary	Log
► Status	
Parameters	Log Type: Kernel Log - Auto Refresh: 0 - Ernort
Encoder (01-08)	Compared and a second sec
Encoder (09-16)	0.0000000 Linux version 3.19.0-xilinx (root@localhost.localdomain) (gcc version 4.9.1 (Sourcery CodeBench Lite 2014.11-30)) #6 SMP PREEMPT Thu Nov 12 11.07.40 CST 20
Encoder (17-24)	[0.000000] CPU: ARMv7 Processor [413fc090] revision 0 (ARMv7), cr=18c5387d
Modulator	0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing instruction cache
► IP Stream	0.000000 Macrine model: xmk2ynq-7000 0.000000 (mm: xmk2ynq-7000 0.000000 0.00000 0.0000 0.00000 0.000
USB Media	0 000000 Memory policy. Data cache writealioc
Puntom.	[0.000000] On node 0 totalpages: 65536
System	[0.000000] free_area_init_node: node 0, pgdat 406817c0, node_mem_map 4fdf0000
Network	0 000000 Normal zone: 512 pages used for memmap
Password	[0.000000] Normal zone: 05536 pages testived [0.0000000] Normal zone: 05536 pages LIEO batch 15
Configuration	0 0000000 PERCPU: Embedded 10 pages/cpu @4tdd3000 s8512 r8192 d24256 u40960
Firmware	0.000000] pcpu-alloc: s8512 r8192 d24256 u40960 alloc=10*4096
Date Time	[0.00000] pcpu-alloc: [0] 0 [0] 1
Log	0.000000 Built zonelists in Zone order, mobility grouping on. Total pages 65024
	U 000000 Kernel commandi line: consolectlyPs0;115200 root=/dev/ram /w earlyprintk
	Coolocida India con esta contributions: 131072 bytes Control of the total con esta contributions: 131072 bytes
	0.000000 log buf len min size 131072 bytes
	[0.000000] log_buf_len: 262144 bytes
	[0.00000] early log buf free: 129660(98%)
	[0.000000] PID hash table entries: 1024 (order: 0, 4096 bytes)
	0.000000 Dentry cache hash table entries: 32/68 (order 5, 1310/2 bytes)
	0.000000 Induence: 22560K/262144K available (4505K kernel code: 249K rwdata, 1660K rodata, 216K init, 297K bss, 23100K reserved, 16384K cma-reserved, 0K highmem)
	0.000000] Virtual kernel memory layout:
	[0.000000] vector : 0xffff0000 - 0xffff1000 (4 kB)
	[0.000000] fixmap : 0xffc00000 - 0xfff00000 (3072 kB)
	[0.000000] vmailoc: 0x50800000 - 0x7000000 (27.92 MB)
	[0.000000] IVMINERI UNAUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
	0.000000 modules: 0x3000000 - 0x34e00000 (14 MB)
	[0.000000] .text: 0x40008000 - 0x4060da2c (6167 kB)
	[0.000000] init: 0x4060e000 - 0x40644000 (216 kB)

Figure-30

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

SFT3536S Encoder Modulator DVB-C User Manual

Chapter 5 Packing List

SFT3536S Encoder Modulator	1pc
HDMI Cables	8/16/24pcs
Power Cord	1pc
Ground Lead	1pc

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