



HPR4624M

## **Product Overview**

HPR4624M is a professional high integration device which includes tuner demodulation, multiplexing, and modulation. It supports 2-12 tuner input(support different types of tuner ( DVB-S2、 DVB-C、 DVB-T、 ATSC、 DTMBT、 ISDBT, etc. ) input), Support PCMCIA card descrambling. Supports 4/8/16 carrier outputs (ATSC, ISDBT, DTMBT, DVB-C/-T), 1000M IP output, MPTS and SPTS output. In conclusion, its high integrated and cost-effective design makes the device widely used in varieties of digital distribution systems such as cable TV digital head-end, digital TV broadcasting etc.

### **Key Features**

Support 2-12 channels PCMCIA card descrambling, single module provides
 2 channels (2 Tuner+2 PCMCIA slots), a maximum of 6 modules support a total of 12 PCMCIA card channels.

the tuner supports (DVB-S2/DVB-C/DVB-T/ATSC/ISDBT/DTMBT)

- Supports 4/8/16 channel modulation output (ATSC, ISDBT, DTMBT, DVB-C/T) options
- 1000M IP(MPTS and SPTS) output over UDP and RTP protocol
- 2 ASI inputs and 2 ASI Independent output
- Support "Null PKT Filter" function
- Support PID Remapping/ PCR accurate adjusting, PID pass
- LCD、key function
- Control via web management, and easy updates via web

# **Technical Specification**

Input	Tuner(2-12 tune	er)	
	and the tuner su	pports ( <b>DVB-S2/D</b>	VB-C/DVB-T/ATSC/ISDBT/DMBT)
	2 ASI input		
	128 IP input		
Output	RF output 4/8/1	6 frequencies (DVE	B-C/DVB-T/ATSC/ISDBT/DMBT)
	2 ASI output		
	IP output (SPT	S and MPTS) over	UDP and RTP protocol
Modulation	DTMBT	Standard	DTMB GB20600-2006
Mode		Constellation	4QAM、16QAM、32QAM、64QAM
		MER	≥40dB
		RF frequency	50~900MHz, 1kHz step
		RF output level	-35dBm~-5dBm, 0.1dB step
	DVB-T	Standard	EN300744
		Bandwidth	6M, 7M, 8M
		Constellation	DQPSK, QPSK, 16QAM, 64QAM
		Guard Interval	1/4, 1/8, 1/16, 1/32
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		MER	≥40 dB
		RF frequency	50~960MHz, 1KHz step
		RF output level	-35~ -5dBm, 0.1db step
	QAM	Standard	EN300 429/ITU-T J.83A/B/C
		MER	≥40db
		RF frequency	50~960MHz, 1KHz step
		RF output level	-35~-5dBm , 0.1dBm step
		SR	5.0Msps~7.0Msps, 1ksps step
		Constellation	16/32/64/128/256QAM
	ATSC	Standard	ATSC A/53
		MER	≥40dB
		RF frequency	30~960MHz, 1KHz step
		Constellation	8VSB
	ISDBT	Standard	ARIB STD-B31
		FFT	2К
		Constellation	DQPSK, QPSK, 16QAM, 64QAM
		FEC	1/2, 2/3, 3/4, 5/6, 7/8
		Hierarchical	A
		mode	
		Bandwidth	6M,7M,8M
System	Web/NMS	1	,
	中文/English		

Miscellaneous	Dimensions	482mm×410mm×45mm
	Weight	4-9kg
	Temperature	0~45°C(Operation); -20~80°C(Storage)
	Voltage range	AC100~240V, 50/60Hz
	Power consumption	<90W

# **Model Selection**

Model	Input	Output
HPR4624M-4	Supports a maximum of 6 dual-channel	RF output 4 frequencies;
	PCMCIA modules with 12 channels of	1 MPTS/128 SPTS output;
	Tuner input;	2 ASI output.
	128 IP input; 2 ASI input.	
HPR4624M-8E	Supports a maximum of 6 dual-channel	RF output <mark>8 frequencies</mark> ;
(Economy)	PCMCIA modules with 12 channels of	1 MPTS output
	Tuner input;	
	128 IP input	
HPR4624M-8	Supports a maximum of 6 dual-channel	RF output 8 frequencies;
(Standard)	PCMCIA modules with 12 channels of	8 MPTS/512 SPTS output;
	Tuner input;	2 ASI output.
	128 IP input; 2 ASI input.	
HPR4624M-16	Supports a maximum of 6 dual-channel	RF output 16 frequencies;
	PCMCIA modules with 12 channels of	8 MPTS/512 SPTS output;
	Tuner input;	2 ASI output
	128 IP input; 2 ASI input.	

Note: A single module provides 2-channel PCMCIA card descrambling(2

Tuner+2 PCMCIA slots), and supports a maximum of 6 modules with a total of 12

PCMCIA card channels, the number of channels is optional as a multiple of 2.

# Front / Rear Panel



1.	RF out
2.	LCD Display
3.	Buttons and Indicator lights
4.	ASI
5.	NMS、DATA Input/ output
6.	PCMCIA slots
7.	Tuner input
8.	Power



# 1 Installation

### 1.1 Installation process:



## 1.2 Grounding

The chassis for headend equipment both have to make grounding well, to protect the equipment from Lightning strikes or electricity instability.

### 1.2.1Web setting connection

Connect the equipment from port "DATA 1/2" to computer by network cable.

### 2 Web Management

### 2.1 Description

Web Management is for the control, managing and settings of

the digital headend equipment. The Browser to running the

software we suggest is for IE8 or higher version or Firefox.

### 2.2 Log on the equipment

Open the browser, input IP: 192.168.0.136



Then input the user name and password:

User name: admin.

Password: admin

Caution:

1.If fail to connect the computer and headend equipment,

please check if the computer and headend equipment are in

same IP range.

For example: The computer IP is 192.168.99.252, then we may

need to set the headend equipment IP to be

192.168.99.xxx (from equipment front panel LCD screen), or

to set the computer IP to be same IP range as the equipment.

(xxx can be any of 1-254 except"252").

2. From front panel LCD SCREEN you can check the IP

address of the headend equipment. The original IP :

192.168.0.136.

# 2.3.1 Basic instructions

After log on, you will get the following interface.

Tune to English version

<u>.</u>									Save Config ENGLISH   简体中
Band	Slot	Name	Input Rate	Output Rate	Input Status	Output Statu	s ID	Version	
11		TUNER/CI 2CH	0.0 Mbps	٥	•	8	0x81	0x1c02	Quick cave Language
L2 E		TUNER/CI 2CH	H 0.0 Mbps	٥	•	۵	0x81	0x1c02	Quick save Language
L3 E		TUNER/CI 2CH	0.0 Mbps	٥	•	0	0x81	0x1c02	
HI		TUNER/CI 2CH	H 0.0 Mbps	۵	•	٢	0x81	0x1c02	
H2 E	-	TUNER/CI 2CH	0.0 Mbps	٥	•	۵	0x81	0x1c02	
нз Е		TUNER/CI 2CH	0.0 Mbps	۵	•	8	0x81	0x1c02	
ASI IN		Prog Col	unts	Bit(/	.ct)		Lo	ck	Input/output
MPTS		Prog Col	unts	Bit(Act	Max)		Ove	rflow	status information
1		8		0.1/120.	) Mbps				
2		8		0.1/120.	) Mbps				
3		8		0.1/120.	) Mbps				
4		3		0.1/120.	) Mbps				
5		0		0.0/120	) Mbps			•	
6		0		0.0/120.	Mbps			•	
7		0		0.0/120	Mbps			•	
8		0		0.0/120	) Mbps			•	
ETH	IP	3	Subnet Mask	Gateway	Mac		Link Status		
NMS	192.168.0.136	25	55.255.255.0	192.168.0.1			•	SettP	Network address
DATA1	192.168.2.136	25	55.255.255.0	192.168.2.1			۵	SettP	information
Software		Hardware	OS	We	b	SN		Running Time	Software and hardwar
6050 1196 FEC	1	44013	1 26 2 796	3.1	15	20200715143	n	0.099-00:02:40	versions etc

Status: shows the basic information like the version of the system.
Input/ output status: shows the signal input and output status.
Software version: the version of the running software
Hardware version: the version of the running hardware
Web version: the running web page version
The System: the running system version
Time: the running time

### 2.3.2 Settings

There are Band settings, Program Mux, and IP stream data under the Settings.

### 2.3.2.1 Tuner settings

Tips: 12CH)	close the channel when you do not use it to in	increase the response of WEB		
	ner-L1	Tunor Channe	Lowitch Tunor Paran	actor cotting
÷ E	Tuner Type Valid Bitrate Inpu	at Signal Config Param		neter setting
1	DVBS/S2 Coal 0%	Ity: Satellite Freq. 3840 MHz LNB Freq. 5150 MHz Symbolrate: 27500 Ksps	✓ Edit	
2	0.00 DVBS/S2 0.000 Mage 0% Street	db lity: Satellite Freq: 3840 MHz LNB Freq: 5150 MHz Symbolrate: 27500 Ksps ngth:	e foi	
Tuner Ve	0% CN: 0.00	db		
<b>_</b>	Edit	Set paramete	are	
ier Parameter,	CIICK	JEL PALAINELE	13	
er Parameter,	CIICK	Set paramete	15	
her Parameter,	CIICK	Set paramete	15	
her Parameter,	CIICK	Set paramete	13	
H 1 Config	CIICK	Set paramete	13	
H 1 Config	CIICK	Set paramete	13	
H 1 Config	ncy: 3840		MHz	
H 1 Config Satellite Freque	ncy: 3840 ncy: 5150		MHz MHz	
H 1 Config Satellite Freque LNB Freque Symboli	ncy: 3840 ncy: 5150 rate: 27500		MHz MHz Ksps	
H 1 Config Satellite Freque LNB Freque Symboli LNB Volta	ncy: 3840 ncy: 5150 rate: 27500 age: 0 V		MHz MHz Ksps	
H 1 Config Satellite Freque LNB Freque Symboli LNB Volta	ency: 3840 ency: 5150 rate: 27500 age: 0 V 22K: Off		MHz MHz Ksps	
H 1 Config Satellite Freque LNB Freque Symboli LNB Volta Sate	ency: 3840 ency: 5150 rate: 27500 age: 0 V 22K: Off ellite: Off		MHz MHz Ksps	
Her Parameter, H 1 Config Satellite Freque LNB Freque Symboli LNB Volta Sate	ency: 3840 ency: 5150 rate: 2750 age: 0 V 22K: Off ellite: Off		MHz MHz Ksps	
Her Parameter, H 1 Config Satellite Freque LNB Freque Symboli LNB Volta Sate	ency: 3840 ency: 5150 rate: 2750 age: 0 V 22K: Off ellite: Off		MHz MHz Ksps	

Click "Apply" to save the settings Program Mux

# 2.3.2.2 Program stream settings

### 1.Main Mux

Parse Program: After setting the parameters for each input channel of the high-frequency head, lock it, select the input channel "Tuner 1" and other channels, and click Parse program or Parse allow. Resolve program information for all channels.

				and the second	Save Config EN	IGLISH   简体中文   繁體中文
Device +	MAIN MUX					
Band + Program Mux Biss Main Mux Output + Advance +	L1 C L2 ASI Input 1 ASI Input 2 PInput Input port select	eLose = Locked Input program selection = 1: Tuner 1 (prog: 1/1) = 2: 10 (prog: 1/1) = 3: Tune 3 (prog: 1/1) = 3: Tune 3 (prog: 1/1) = 4: Tuner 4 (prog: 1/1) = 4: Tuner 4 (prog: 1/1)	[0.00.00] [0.00.00] [0.00.00] [0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00] (0.00.00]	Avormal → Overflow     (1:0VBT1 (prog. 4))     (1:0VBT1 (prog. 2))	election [0.1/31.7M] Prog. Edit.) TS Edit [0.1/31.7M] Prog. Edit.) TS Edit [0.0/31.7M] (Prog. Edit.) TS Edit [0.1/31.7M] (Prog. Edit.) TS Edit	Gif Ougut Gif Ougut SPIS Output port selection
		Input	time out	Output		

A、Program Edit: First choose the program, tick it " <sup>I</sup> <sup>I</sup> <sup>Digital</sup> <sup>1</sup>, click <sup>I</sup>, to connect this program to the chosen frequency.

B、Program delete: : First choose the program, tick it "Digital 1 [L1:CH1\_Tuner 1]",

click \_\_\_\_\_,to delete this program from this channel

Function description:



### 2. ASI input Mux

				A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Save Config EN	GLISH   简体中文   繁體中文
Device +	MAIN MUX					
Band +						
Program Mux -	⇒Lose = ====1: AS	Locked	[0.0/0.0M]	→Normal → Overflow ⊕ →1: MPTS 1 (prog: 8)	127 0/120 0MI TS Edit	
Main Mux	🔲 🗆 🖄 1: 🗹	1] Digital 1	11	⇒2: MPTS 2 (prog: 2)	[0.1/120.0M] TS Edit	MPTS
Output +	L2 🗌					SPTS
Advance +	ASI Input 1		<		[0.0/120.0M] TS Edit	
TUTUNC	ASI Input 2			'-⇒4: MPTS 4 (prog: 0)	[0.0/120.0M] TS Edit	
	IP input					
			Parse program			
			Parse all			
			une out.			
			60 second	S		
			Collapse(Exp:			

Click "ASI input 1", choose"1: ASI(prog: 0)"then click decoding the

program and then to choose program to the related channel.

3. IP input

				Save Config ENGLISH   简体中文   繁體中文
Device + MAIN	i MUX			
Band +	all size in a lastered		Numel & Ourdan	
Program Mux —	⇒Lose ⇒ Locked ⊕ ⇒1: GE1_224.2.2.2:2001 (prog: 1/1)	[0.0/0.0M]	⇒Normal → Overlow	[27.1/120.0M] TS Edit
Main Mux	1 🔲 🗆 1: 💟 [8201] TV-101	14		[0.1/120.0M] TS Edit
Output +	2	>	® 2: V-101 [DATA:CH1_GE1_224.2.2.2:2001]	SPTS
Advance +	nput 1		→3: MPTS 3 (prog: 0) →4: MPTS 4 (prog: 0)	[0.0/120.0M] TS Edit
ASIIn		>>		for a second ( ro cont)
		Parse progra		
		Parse all		
		time out:		
		60 secon	ds	
		Collapse Exp		

Add, delete, edit and other Settings in this list.

Function description:



4. How to Modify the program data setting

Choose the program you want to edit, as follows:

				Save Config ENGLISH   简体中文   繁體中文
Device + MAIN MUX				
Pand 4				
19110 19	→Lose → Locked		→Normal	
Program Mux —	⊕→1: Tuner 1 (prog: 1/1)     □→2: Tuner 2 (prog: 1/1)	[0.0/0.0M]		[0.1/120.0M] TS Edit
Main Mux 📃 🖬 🗹	⊕ ⇒2. rule 2 (bidg. 1/1) ⊕ ⇒3: CICARD A OUT (prog: 1/1)	[0.0/0.0M]	P 1: Digital 1 [L1:CH1_Tuner 1]	MPTS
Output +	⊞ ⇒4: CICARD B OUT (prog: 1/1)	[0.0/0.0M]		SPTS
		<	#4 Digital 1 [L1:CH4_CICARD B OUT]	
Advance +		>>		
H2		~~	® 6: Digital 1 [L2:CH2_Tuner 2]	
H3		Parse prograf	1 7: Digital 1 [L2:CH3_CICARD A OUT]	
ASI Input 1		Parse all	8: Digital 1 [L2:CH4_CICARD B OUT]	
		all timoout:	⊕ ⇒2: MPTS 2 (prog: 8)	[0.1/120.0M] TS Edit
		ail unieouc	e ⇒4: MPTS 4 (prog: 3)	[0.1/120.0M] TS Edit
IP Input DATA1		60 seconds		[0.0/120.0M] TS Edit
		si timeout:		[0.0/120.0M] TS Edit
		2000 millisecond	d8: MPTS 8 (prog: 0)	[0.0/120.0M] TS Edit
		Collapse[Exp		

Click Digital 1 [L1:CH1\_Tuner 1], You will get the information of the programs:

Program From Input:	CH1_Tuner 1 [L1]	
Service Name:	Digital 1	
Program Number:	8201	
Logic Channel Number:	1	
Service Type:	0×01	
Service Provider:		
PMT Descriptor Tag:	□ 0×00	
PMT Descriptor Data:	(Hex)	
PMT PID:	0×0020	
PCR PID:	0×0021	
PCR First:	0	
MPEG-2 Video PID:	☑ 0x0022	
MPEG-2 Audio PID:	☑ 0x0023	

Click "Apply" to save the settings .

# 2.3.2.3 RF OUT setting

+	RF OUT				
+	Channel	Frequency	Status	Bit(Act/Max)	Edit ALL
-	1	474.000 MHz		0.0/23.2 M	Edit
	2	480.000 MHz	•	7.3/23.2 M	Edit
tream	3	486.000 MHz	٠	8.3/23.2 M	Edit
Stream	4	492.000 MHz	•	0.0/23.2 M	Edit
ce +					

Click Edit all to setting all data for each frequency.

Device + Band +						
Band +						
Program Mux +						
lutput -						
odulator1						
etwork						
PTS IP Stream	Qui	ickly Config.			[ close ]	
dvance +		Channel Level: Spec Invert: Channel Enable: Freq Mode: Start Frequency: Frequency Step:	-5.0 (-35 Normal All RF OFF Auto 474.000 (96 - 6.000 MHz	~ -5 dBm) ~ ~ ~ 864 MH2)		
		Interleave: Constellation: FFT:	0 64 QAM 2K (Mode 1)	* *		
		Guard Interval: FEC:	1/32 7/8	<b>v</b>		
					Apply	

Click "Apply" to save the settings .

# 2.3.2.4 Network settings

To set or change the IP address of the equipment:

				and a second sec
NETWORK				
				1
NMS				
	IP Address:	192.168.0.136		
	Subnet Mask:	255 255 255 0		NMS port Settings
	Gateway:	192.168.0.1		NWIS port Settings
	Web Manage Port:	80		
	MAC Address:	60:20:17:04:02:18		
			Apply	
DATA-1				
	IP Address:	192.168.2.136		
	Subnet Mask:	255.255.255.0		Data port sottings
	Gateway:	192.168.2.1		Data port settings
	MAC Address:	60:20:17:04:02:19		
			Apply	

Click "Apply" to save the settings.

### 2.3.2.5 MPTS IP stream settings

MPTS IP setting as follows :

											Save Config
e + MPTS IP :	TREAM										
id + Tips: gram Mux + 22 put - 33	RTSP can be supported RTSP Output format for RTSP Output format for 92, 168,2,136 in RTSP (	by choosing I MPTS1 is as SPTS1 is as 1 output format	RTP as the or follows rtsp:// follows rtsp:// ; is the IP addr	output proto //192.168.2. /192.168.2. dress of DAT	col 136:6666/n 136:6666/s TA-1	npts1 pts1					
TS IP Stream	RTSP Output Protocol m	iust have two	channel ports	ts spaced a	t or greater	than 2					
vance + General:											
Protocol:				UDP		~					
ASI OUT:				MPTS	1	~					
ASI OUT2:				MPTS Set	1	~					
Channel Ir	fo.(Alarm/Active/Total)	: 0/4/4									
			Ch	nannel sw	Null					Quick settings	5
Channel	Address	Port	TTL	Enable	Filter	Source TS		Out ETH	Bit(Act/Max)	Edit ALL	
1	224.2.2.2	2004	128			MPTS 1	~	DATA	26.9/120.0 M	1.0	
2	224.2.2.2	2004	128			MPTS 2	~	DATA	0.0/120.0 M		
3	224.2.2.2	2006	128		*	MPTS 3	×	DATA	0.0/120.0 M		

Click [You will get the information of the programs:

vice +	MPTS IP STREAM	Jave Coming EndLish 副体中文 新語
nd +		
nram Mux 🚽	Tips: 1.RTSP can be supported by choosing RTP as the output protocol	
	2.RTSP Output format for MPTS1 is as follows rtsp://192.168.2.136.6666/mpts1	
	4.192.168.2 Edit ALL	[close]
DIK Street	5.RTSP Out	
IP Stream	Tips:	
ince +	General: All IP Enable: Open/Close all ip streams. All IP Enable: Open/Close all ip streams. All IP Address all ip streams use the same address.	
	Protocol: Start Port: the port of the first ip stream.	d Detect 0
	ASI OUT: All IP Null PKT Filter:Open/Close Null Pkt of all ip streams.	u Port,set u.
	A SLOUT2	
	All IP Enable:	
	Channel Info.(Alarm All IP Address: 239.2.2.2	
	Start Port: 2000	
	Step: 2	
	Channel A All ID Mult DIGT Either	Edit ALL
	1 224.2	
	2 224.2	Apply Close
	3 224.2.2.2 2006 128 🖌 🖋 MPTS	3 V DATA 0.0/120.0 M
	4 224.2.2.2 2007 128 🖌 🖌 MPTS	4 V DATA 0.0/120.0 M

Click "Apply" to save the settings.

# 2.3.2.6 SPTS IP stream setting

SPTS IP setting as follows :

						Save Config ENGLISH   简体中:
1.R1 2.R1 3.R1 4.19 5.R1 Rate Mor 1.0 2.01	TSP can be supported by TSP Output format for MF TSP Output format for SP 22.168.2.136 in RTSP out TSP Output Protocol mus nitor: N.Turn off the output whe FF:Turn off rate monitorin	choosing RTP as the outpr TS1 is as follows rtsp://192 TS1 is as follows rtsp://192 trS1 is as follows rtsp://192 put format is the IP address it have two channel ports sp in the code rate is lower that ig function	ut protocol 2.168.2.136.6666/spts1 2.168.2.136.6666/spts1 s of DATA-1 vaced at or greater than 2 in 200kbps, and turn on the	output when the code rate is higher	than 1Mbps	
General:						
Protocol: Rate Monito	or:		UDP v			
Channel Info	o.(Alarm/Active/Total): 0	0/4/4	Set			
Channel Info	o.(Alarm/Active/Total): 0 SPTS 1-128 SPTS 1	0/4/4 29-256 SPTS 257-384 Cha	SPTS 385-512	v	Qu	lick settings
Channel Info	o.(Alarm/Active/Total): 0 SPTS 1-128 SPTS 1 Address	0/4/4 29-256 SPTS 257-384 Cha Port TTL	Set SPTS 385-512 Innel Switch Monit Enable Statu	or 5 Source TS	Qu Bit(Act)	iick settings
Channel Info	o.(Alarm/Active/Total): 0 SPTS 1-128 SPTS 1 Address 239.2.2.2	0/4/4 29-256 SPTS 257-384 Port TTL 3000 128	SPTS 385-512 spTS 385-512 spttch Monit Enable Statu	sr 5 Source TS TV-L201(Encoder 1)	Qu Bit(Act) 3.4 M	ick settings
Channel Info Channel 1 2	o.(Alarm/Active/Total): 0 SPTS 1-128 SPTS 1 Address 239 2 2 2 239 2 2 2	0/4/4 22-256 SPTS 257-384 Port TTL 30000 128 3002 128	SPTS 385-512 Innel switch Monit Enable Statu	Source TS           TV-L201(Encoder 1)           TV-L202(Encoder 2)	Qu Bit(Act) 3.4 M 0.0 M	iick settings
Channel Info Channel 1 2 3	o.(Alarm/Active/Total): 0 SPTS 1-128 SPTS 1 Address 239.2.2.2 239.2.2.2 239.2.2.2	0/4/4 29-256 SPTS 257-384 Port TTL 30000 128 30002 128 3002 128	SPTS 385-512 Innel switch Monit Enable Statu	Source TS           TV-L201(Encoder 1)           TV-L202(Encoder 2)           TV-L203(Encoder 3)	Qu Bit(Act) 3.4 M 0.0 M 3.4 M	iick settings

Click "Edit All"

						Save Config ENGLISH   简体中文   繁體中文
Device + Band +	1.RTSP can 1 2.RTSP Outp 3.RTSP Outp 4.103.169.2	be supported by choosing RTP as the out ut format for MPTS1 is as follows rtsp://11 ut format for SPTS1 is as follows rtsp://15 26 in RTSP output format in the IR addres	put protocol 92,168.2.136:6666/mpts1 12,168.2.136:6666/spts1			
Program Mux +	5.RTSP Outp	ut Protocol must have two channel ports	spaced at or greater than 2			
Output -	Rate Monitor: 1.ON:Turn o	Edit ALL			[ close ]	
MPTS IP Stream	2.OFF:Tum					
SPTS IP Stream		Tips: Use this page to edit all ip stream	s.			
Advance +	General: Protocol: Rate Monitor:	All IP Enable:Open/Close all ip st All Out Bitrate: set all ip out total b All IP Address: all ip streams use Start Port: the port of the first ip st Step: the step of port if you do not	reams. itrate. the same address. ream. want to modify the Addres	s and Port,set 0.		
	Channel Info.(Alarm	All IP Enable:				
	SPTS 1	Start IP Address: Step:	239.2.2.2			
	Channel	Start Port: Step:	3000			EditALL
	1 2:	TTL:	128			
	2 2:				Apply Close	
	3 21					
	4 23	3006 128		TV-L204(Encoder 4)	0.0 M	

Click Apply save to save the settings.

#### 2.3.3 Advanced settings

This is the advanced setting of the device , including the modulation format switching, software updating, uploading .

### 2.3.3.1 Upgrade

We generally suggest users do not do modulation format switching without our online supporting. If you need to switch the modulation into other format, or upgrade the software, please contact us to make online supporting.

# 2.3.3.2 User/password settings

User name and password settings.

			Save Config ENGLISH   简体中文   繁馏中文
Device +	PASSWORD		
Band +			
Descence Man	Modify the login name and password to make the device	e safely. If forget the name or password, you can reset it by keyboard. The default login name and password is "admin". Also please note the	
Program wox +	capital character and lowercase character.		
Output +			
Advance –	Current UserName: admi	in	
Upgrade	Current Password:		
Save   Load	New UserName:		
User   Password	New Password:		
Date   Time	Confirm New Password:		
Log			
		Apply	

Default username and password: admin

If you have changed your account and password, keep them securely.

### 2.3.3.3 Save / load the settings

		Save Config ENGLISH   简体中文   双體中文
Device +	CONFIGURATION	
Band +		Configuration file loading saving backup clearing etc.
Program Mux 🔶	Save To Device Load From Device Load Default Config Save To PC Load From PC	configuration me loading, saving, backup, cleaning, etc
Output +		
Advance –	When you change the parameter, you shoud save configuration ,otherwise the new configuration will lost after reboot.	
Upgrade		
Save   Load		Save
User   Password		
Log		
	CLEAR CONFIG	
	Clear current configuration File.Reboot the device.device will enter factory mode.	
		Com

1、Save to device: After change any of the data or settings, please

click "save to device" to match the settings between the software and the device.

2、Load from device: This is to download the recent settings from the device. Please save the settings when finish the downloading.

3、Load the default config: This is to reset the device to the factory settings.

4. Save to PC: This is to save the current configuration to local files in PC. Users are suggested saving the settings before upgrading the device.

5. Load from PC: Users can replace the current settings with the backup settings from local files (PC).Note: Do not turn off the computer on the process of downloading, otherwise the device will not work.

6、CLEAR CONGLG: Click "Clear"to delete all the current setting to reset the data settings.

### 2.3.3.4 Date/ Time

			Save Config ENGLISH   简体中文   繁體中文
Device +	DATE   TIME		
Band +			
Program Mux +		1970-01-01 01:51:37	
Outrust	Timezone:	(GMT) Greenwich Mean Time, Dublin, Edinbu ~	
Output +	NTP Server 1:		
Advance –	NTP Server 2:		
Upgrade	NTP Server 3:		
Save   Load	NTP Server 4:		
User   Password	NTP Server 5:		
Date   Time		Set Timazzne Set NTD Undete from himsen	
Log			

To set the date and time.

## 2.3.3.5 Blog

Record the operating status and parameter modification of the

equipment.



When the device is abnormal, the device work log can provide some useful information.

### 2.3.4 Language exchange

4in1 ISDB-1 Modulator	Quick save Language setting
	Save Config ENGLISH 简体中文 繁體中文

Click "English" to change the web interface and LCD display

into English version and save.

### Please save the changes after all operations.

#### 3 Cautions

Please follow the following tips to set running the equipment to

make sure safety and performance.

## 3.1 Precaution

- Place the equipment in an suitable place with a temperature range of 0-45<sup>°</sup>C
- Make sure that heat sink on the rear panel is well ventilated, and all jacks smooth opening;
- Check the power voltage, and all power connections;
- Check the RF output level to make sure it is in the working range;
- Recheck all connections;
- Don't switch OFF/ON the equipment frequently (each switch on and off should be Min. 10 seconds later)

# 3.2 When do you need to unplug the power

- The power cord or socket is damaged.
- If any liquid get into the equipment.
- Short circuit caused by anything getting into the chassis.
- Rainfall or soaking to the equipment.
- Any damage to the equipment.
- Long idleness of the equipment.
- Equipment does not work after preset recovery.
- Equipment maintenance