SMP181-HLS

User Guide



V1.1-N

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Revision History

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12/8/2016	1.0	First Draft	MS
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This guide contains some symbols to call your attention.

A DANGER	The DANGER symbol calls your attention to a situation that, if ignored, may cause physical harm to the user.
	The CAUTION symbol calls your attention to a situation that, if ignored, may cause damage to Our product.
	The NOTE symbol calls your attention to important information.
TIP	The TIP symbol calls your attention to additional information that, if followed, can make procedures more efficient.

This guide also contains the following text conventions.

Black Bold Indicates a button to click, or a menu item to select.

Contents

PART 1 SMP181 CHASSIS OVERVIEW ·····	
1.1 Front Panel Overview ······	
1.2 REAR PANEL OVERVIEW	
PART 2 RACK INSTALLATION	2
PART 3 WEB UI OVERVIEW ······	
3.1 Web UI INTRODUCTION	
3.1.1 Connecting to the Management Port	
3.1.2 Logging into the Web User Interface	4
3.1.3 Dropdown Menu ·····	4
3.1.4 Service Configuration Introduction	
PART 4 INPUT AND OUTPUT ······	6
4.1 Configuring Input	
4.1.1 HLS Input	••••••6
4.1.2 Built-in ASI Input	
4.1.3 Built-in IP Input	
4.2 Configuring Output	
4.2.1 Decoder ·····	
4.2.2 Built-in ASI Output	
4.2.3 Built-in IP Output	
4.2.4 Configuring Output in Service Configuration	
4.3 Other Configurations	
4.3.1 Delete Input TS ······	
4.3.2 Bypass Input TS ·····	
4.3.3 Delete a Output TS/Program/PID·····	
4.3.4 Edit TS Info ·····	
4.3.5 PSI/SI	
PART 5 EQUIPMENT CONFIGURATION	16
5.1 System	
5.2 Version Information/Upgrade ·····	
5.3 LICENSE	
5.4 IMPORT/EXPORT CONFIGURATION	
5.5 Login User Management	
5.6 Log	
PART 6 APPENDICES ······	19
Appendix A - Warranty·····	
Appendix B - After-Sales Support	

SAFETY INSTRUCTIONS

- Read these instructions
- Keep these instructions
- Follow all instructions
- Heed all warnings
- Do not use this unit near water.
- Only use a damp cloth to clean chassis
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions
- This unit is grounded through the power cord grounding conductor. To avoid electrocution, do not remove the power cord before the outlet is switched off or unplugged. If the plug does not fit into your outlet, consult an electrician for replacement of the outlet.
- Route power cords and other cables so that they are not likely to be damaged.
- Only use attachments/accessories specified by the manufacturer.
- Do not wear hand jewelry or watch when troubleshooting high current circuits.
- Do not work on the system during periods of lightning.
- Refer all servicing to qualified service personnel. Servicing is required when this unit has been damaged in any way.
- **Damage Requiring Service**: Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of the controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - If the product has been damaged in any way.
- **Replacement Parts**: When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer. Unauthorized part substitutions made may result in fire, electric shock or other hazards.

Safety Precautions

There is always a danger present when using electronic equipment.

Unexpected high voltages can be present at unusual locations in defective equipment and signal distribution systems. Become familiar with the equipment that you are working with and observe the following safety precautions.

- Every precaution has been taken in the design of the products to ensure that it is as safe as possible. However, safe operation depends on you the operator.
- Always be sure your equipment is in good working order. Ensure that all points of connection are secure to the chassis and that protective covers are in place and secured.
- Never work alone when working in hazardous conditions. Always have another person close by in case of an accident.
- Always refer to the manual for safe operation. If you have a question about the application or operation contact your provider for assistance.

Electrostatic Discharge (ESD) Caution:

- Always wear an ESD-preventive wrist or ankle strap when handling electronic components.
- Handle cards by the faceplates and edges only. Avoid touching the printed circuit board and connector pins.
- Avoid touching any electronic components while holding any module in hands.



Danger of explosion if battery is incorrectly replaced.

Part 1 SMP181 Chassis Overview

1.1 Front Panel Overview

SMP181-HLS is a 2-channel decoder with HLS stream receiving interfaces. On the back of its chassis, there also built-in ASI and IP I/O interfaces.



- 1. Indicators (For Power, ASI, TS/IP and decoder status)
 - Red or Flashing Red : Error
 - Green: Normal
 - Flashing Green: Initialing or loading a board
- 2. LCD Screen
- 3. Up, Down, Left, and Right buttons
- 4. Menu, OK, and Esc buttons

1.2 Rear Panel Overview



On the back panel of the chassis, there three slots available for different boards. In SMP181, the HLS TSIP board is in slot1, and the Decoder board is in slot2. Slot 3 is empty.

Part 2 Rack Installation

Rack Installation

The SMP181 is designed to be mounted in a standard 19" rack. It takes 1RU of rack space. To install it into a rack, please use the following steps:

- 1. Determine the desired position in the rack for the SMP181. Make sure that the air intake on the top of the unit and the exhausts on the back of the unit will not be blocked.
- 2. Install the brackets at desired position if there's no supporting plate in the rack.
- 3. Insert the rack mount clips into place over the mounting holes in the rack.
- 4. Slide the SMP181 into the position in the rack.
- 5. Secure the chassis to the rack by installing the four supplied screws through the front mounting holes and tightening.



Note the SMP181 chassis is cooled via inbuilt fans. Operating temperature is within $0 \sim 50^{\circ}$ C.

AC Power Connection

Only use the supplied 3-prong power connector or one with equal specifications. NEVER tamper with or remove the grounding pin. This could cause damage to the equipment, personnel, or property. Make sure the power outlet is switched off before plug or unplug the power cable from the back panel. Power unit is designed to work under condition of AC100~240V, 50/60Hz. Max consumption is 50W.

When you move this device from a cold condition into a warmer condition, it should be acclimated to the warm and humidity condition for at least 30 minutes. Powering up a non-acclimated unit may lead to shortcut or other damage to electronic components.

Part 3 Web UI Overview

3.1 Web UI Introduction

3.1.1 Connecting to the Management Port

Factory network settings of the Management Port:

- IP address 192.168.1.241
- Subnet Mask 255.255.255.0
- Gateway 192.168.1.1

Use the following step to access the Web UI in a browser.

- Connect both SMP181's management port and the computer's Ethernet port to a switch by CAT5 straight-through cables. If you do not have a switch, you can connect the computer directly to SMP181's management port.
- Set the IP address of the laptop/computer in the same network with the SMP181 management IP address. For example, you can set the computer's IP address to 192.168.1.242.
- Check the physical connection via Command Prompt (Try to click the Windows Menu Icon in the corner of the desktop, and hit "CMD ", then press "Enter", you will open the Command Prompt). Type "ping 192.168.1.241" or "ping 192.168.1.241 –t" and press "Enter" to check reply status. Stable and constant replies from 192.168.1.242 (management computer's IP address) indicate a reliable physical connection. See the following image.

Command Prompt - ping 192.168.1.241 -t	
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	-
C:\Users\123>ping 192.168.1.241 -t	
Pinging 192.168.1.241 with 32 bytes of data: Reply from 192.168.1.241: bytes=32 time<1ms TTL=64	
Reply from 192.168.1.241: bytes=32 time<1ms TTL=64 Reply from 192.168.1.241: bytes=32 time<1ms TTL=64 Reply from 192.168 1 241: bytes=32 time<1ms TTL=64	
Reply from 122.168.1.241: bytes=32 time/ims TTL=64 Reply from 192.168.1.241: bytes=32 time/ims TTL=64	
Reply from 192.168.1.241: bytes=32 time<1ms TTL=64 Reply from 192.168.1.241: bytes=32 time<1ms TTL=64	
	-
•	▶

3.1.2 Logging into the Web User Interface

SMP181	× +			- u x
€ 3 🖉 192.168.1.24	41	🦁 🎆 🤄 🔍 Google	<ctrl+k> ✿ 自 ♣</ctrl+k>	৫ ৬ - ৭ ≡
			<u>English</u> 中文 Русский	How to operate?
		SMP181		
		admin		
		<i>P</i>		
		Login		

Type the management IP address into the URL field of any recommended browser (IE8 or above, Firefox, and Google Chrome) to access the logon page. By default, the admin user account is *admin* with password *admin*. Click **Login** or press Enter on the keyboard to login to the web interface.

We use only IE, Firefox and Chrome for testing procedures. If you use other browsers, like Microsoft Edge, you may encounter incomplete UI layouts, and configure setting in these browsers may lead to errors.

3.1.3 Dropdown Menu

On the top of the Web UI, you will find a couple of menu items. Move the cursor to each item to navigate through the dropdown menus. Menu item with a small white arrow on the right contains submenu items. See the menu structure in the following image.

Status	Module Configuration		Service Configuration	Equipment	t Configuration 🚽 👻	Logout
Chassis	Siot 1:TSIP+02			System		
Services Overview	Slot 2:Decoder-CC		Mainboard Status	Version Inf	formation / Upgrade	
Slot 1:TSIP+02	Slot 4:ASI[Embedded]		TS bitrate Overview	License		
Slot 2:Decoder-CC	Slot 5:TSIP[Embedded			Import / Ex	(port	0.000
		0.038				0.000
lot 4:ASI[Embedded]		0.000		User Autho	orization	0.000
Slot 5:TSIP[Embedded]				Logs		
			Communicate Status			
Slot 1 : No	ormal		Slot 2 : Normal		Slot 3 : Sud-	module out or config failed

4

Status pages summarize the input and output bitrate in each board.

Module Configuration is where you set input and output parameters for each board.

Service Configuration is where to distribute services. See 3.1.4

Equipment Configuration includes the basic settings for a SMP181 unit.

3.1.4 Service Configuration Introduction

Service Configuration page, see the following image, is the main page to distribute input and output services. In the input and output configuration areas, only the slots with modules successfully loaded are visible, except the scrambler which is hidden in Output Configuration Area and it is configurable by right-clicking the programs in output ports. Board 1 in this page refers to the module in slot 1. Board 2 refers to the module in slot 2, and so on.



Function of the Main Buttons in Service Configuration:

Refresh Click to refresh input and output configuration or parameters. There are also **Refresh** buttons of the same function in other pages.

Apply Click to apply the configuration you have just done. There are also **Apply** buttons in other pages. Click **Apply** buttons every time you complete the settings in these pages.

Save Click to save all the configurations into the flash memory. Only in this way will the SMP181 be able to restore all the configurations after power recycling.

Clear All Click to erase the configurations in **Service Configuration**. This operation does not remove the configurations saved in flash memory unless you click **Save** after **Clear All** is done.

The login session will expire in 5 minutes without any active operation. Please click Apply at least once every 5 minutes; otherwise, your work in the last few minutes might be futile because the login session has stopped without notice.

Part 4 Input and Output

4.1 Configuring Input

4.1.1 HLS Input

Verify the IP input cable is connected to the RJ451 port on the TSIP+02 board. Go to **Module Configuration > TSIP+02 > Setup**. Configure the network settings for TSIP+02 board. Click **Apply** before you go to the next step.

	IP Address		192.1	68.1.34	
	Subnet Ma	sk	255.2	55.255.0	
	Gateway		192.1	68.1.1	
	DNS		0.0.0.	0	
	MAC Addre	ss	A0-69-	86-00-F3-1C	
Apply	Defrech	Default	Doboot	LlogradoEirmwaro	Export Log

Go to **Module Configuration > TSIP+02 > Input**. Enable an Input channel, for instance, here we enable channel 1. Enter the URL address. Click **Apply** before you go to the next step.

Channel	Channel Enable	HLS URL	Video Resolution
1	\checkmark	http://192.168.1.106/video/live.m3u8	Auto ~
2			Auto ~

Apply Refresh

Go to Status > TSIP+02, verify the input bitrate, resolution and frame rate are correct.

Channel	Bitrate(Mbps)	Horz Size(mm)	Vert Size(mm)	Frame Rate	Alarm
4	2,000	700	F70	50	
1	2.326	720	576	50	

Go to **Service Configuration**. Right-click on TS1 to **Scan TS**. After the scan, the service will be listed under TS1. See the following image, we have Service01 in TS1.



4.1.2 Built-in ASI Input

Verify the ASI input cable is connected to ASI In port. **Go to Status > Slot4 ASI [Embedded]**, verify the input bitrates are correct. See the following image.

		Slot 4:ASI[Embedded] Stat	us	
		TS Bitrate Overview		
	Input (Mbp	s)		Output (Mbps)
Port	Total Bitrate	Effective Bitrate	Port	Effective Bitrate
Port1	19.393	9.448	Port3	0.000
Port2	0.000	0.000	Port4	0.000

DVBCommunity - сообщество профессионалов ЦТВ https://dvbcommunity.ru/ Go to Service Configuration, Right click on ASI input TS1 to scan the input stream.

nput Program	n Info: Program ∨	
Board1[T Board1[T Board4[A Board4[A Port1 Cont1 Cont2 Port2 TS TS TS TS TS	SIP+02] SI[Embedded]] Scan TS(DVB) Scan TS(ATSC)	
🗄 📄 Board5[T	Clear TS	
	BypassTS	

4.1.3 Built-in IP Input

Go to **Module Configuration > Slot5 TSIP [Embedded] > Setup**. Configure network settings for the embedded TSIP board. Click **Apply** before you go to the next step.

IP Address	192	. 168	. 1	. 34
Subnet Mask	255	. 255	. 255	. 0
Gateway	192	. 168	. 1	. 1
IGMP Version	IGMP	V3	392	~
IGMP Auto Report	Off			~
IGMP Report Period (s)	60			
Speed Mode	Auto			~
Enable Input	On			\sim
Enable Output	On			\sim
FEC Enable	Off			\sim
CBR/VBR	CBR			\sim
MAC Address	A0-69-8	86-00-91-3	С	

Go to **Module Configuration > Slot5 TSIP [Embedded] > Input**. Check the small boxes to open the input channels. Choose Protocol, enter address and port. Click **Apply** before you go to the next step.

Channel	Channel Enable	Source IP Address	Source Port	Protocol	Col Port Matching	Row Port Matching	IGMPV3 Configuration
1	\checkmark	227.40.50.60	1234	UDP ~	Disable ~	Disable ~	Configuration
2	\checkmark	227.40.50.61	1234	UDP v	Disable ~	Disable ~	Configuration
3	\checkmark	227.40.50.62	1234	UDP ~	Disable ~	Disable ~	Configuration
4		227.40.50.63	1234	UDP v	Disable ~	Disable ~	Configuration
5		227.40.50.64	1234	UDP v	Disable ~	Disable ~	Configuration
6		227.40.50.65	1234	UDP v	Disable ~	Disable ~	Configuration
7		227.40.50.66	1234	UDP v	Disable ~	Disable ~	Configuration
8		227.40.50.67	1234	UDP v	Disable ~	Disable ~	Configuration
9		227.40.50.68	1234	UDP ~	Disable ~	Disable ~	Configuration
10		227.40.50.69	1234	UDP ~	Disable ~	Disable ~	Configuration
11		227.40.50.70	1234	UDP ~	Disable ~	Disable ~	Configuration
12		227.40.50.71	1234	UDP ~	Disable \sim	Disable v	Configuration
13		227.40.50.72	1234	UDP ~	Disable \sim	Disable v	Configuration
14		227.40.50.73	1234	UDP ~	Disable ~	Disable ~	Configuration
15		227.40.50.74	1234	UDP ~	Disable ~	Disable ~	Configuration
16		227.40.50.75	1234	UDP ~	Disable ~	Disable v	Configuration

Go to **Status > Slot5 TSIP [Embedded]**, verify the input bitrate of each IP input channels. Go to **Service Configuration** and **Scan TS**. Refer to ASI input configuration steps.

4.2 Configuring Output

4.2.1 Decoder

Go to Module Configuration > Decoder CC. Two decoding channels are available. See the following image.

	FOILI	Port2
Aspect Ratio Conversion	Auto	Auto ~
Output Resolution	1280x720_59.94p(Use for 29.97p) ~	1280x720_59.94p(Use for 29.97p) ~
Fail Mode	Still Image ~	Still Image
Audio Volume[0-49]	0	0
Mixer	Stereo ~	Stereo ~
Audio Prefered Language1	No audio ~	No audio v
Audio Prefered Language2	No audio v	No audio ~
SD EIA 708-B	Enable	Enable
Line	9 ~	9 ~
SD VBI L21 Captions	Enable	Enable
HD EIA 708-B	Enable	Enable
Line	9 ~	9 ~
Audio Group 1 Pair 1	Off ~	Off ~
Audio Group 1 Pair 2	Off ~	Off ~
Apply	Refresh Default Rebo	ot UpgradeFirmware
he items have option	ial settings: Auto, 4:3 Letter Box, 4:3 Pan ar	nd Scan, 16:9 Letter Box, 16:9
he items have option atio Conversion	al settings: Auto, 4:3 Letter Box, 4:3 Pan ar	nd Scan, 16:9 Letter Box, 16:9
he items have option atio Conversion esolution	al settings: Auto, 4:3 Letter Box, 4:3 Pan ar 1920x1080_60p 192	nd Scan, 16:9 Letter Box, 16:9 0x1080_50i 0x720, 60p(Uco for 20p)
he items have option atio Conversion esolution	nal settings: Auto, 4:3 Letter Box, 4:3 Pan ar 1920x1080_60p 192 1920x1080_59.94p 128	nd Scan, 16:9 Letter Box, 16:9 0x1080_50i 0x720_60p(Use for 30p)
he items have option atio Conversion esolution	nal settings: Auto, 4:3 Letter Box, 4:3 Pan ar 1920x1080_60p 192 1920x1080_59.94p 128 1920x1080_30p 128	nd Scan, 16:9 Letter Box, 16:9 0x1080_50i 0x720_60p(Use for 30p) 0x720_59.94p(Use for 29.97p)
he items have option atio Conversion esolution	nal settings: Auto, 4:3 Letter Box, 4:3 Pan ar 1920x1080_60p 192 1920x1080_59.94p 128 1920x1080_30p 128 1920x1080_29.97p 128	nd Scan, 16:9 Letter Box, 16:9 0x1080_50i 0x720_60p(Use for 30p) 0x720_59.94p(Use for 29.97p) 0x720_50p(Use for 25p)
he items have option atio Conversion esolution	nal settings: Auto, 4:3 Letter Box, 4:3 Pan ar 1920x1080_60p 192 1920x1080_59.94p 128 1920x1080_30p 128 1920x1080_29.97p 128 1920x1080_24p 720	nd Scan, 16:9 Letter Box, 16:9 0x1080_50i 0x720_60p(Use for 30p) 0x720_59.94p(Use for 29.97p) 0x720_50p(Use for 25p) 1x576_50i
he items have option atio Conversion esolution	nal settings: Auto, 4:3 Letter Box, 4:3 Pan an 1920x1080_60p 192 1920x1080_59.94p 128 1920x1080_30p 128 1920x1080_29.97p 128 1920x1080_24p 720 1920x1080_60i 720	nd Scan, 16:9 Letter Box, 16:9 0x1080_50i 0x720_60p(Use for 30p) 0x720_59.94p(Use for 29.97p) 0x720_50p(Use for 25p) 1x576_50i 1x480_60i

10

Mixer Stereo, Left, Right, Mono, Dual

Line 4 ~ 9

Audio Group Off, Audio1 PCM, Audio2 PCM

Refer to 4.2.4 about how to distribute a service to the Decoder.

4.2.2 Built-in ASI Output

Go to **Module Configuration > Slot4 ASI [Embedded]**, Enter a **Constant Rate** for the ASI port. This Constant Rate shout be at least 2 Mbps higher than the Effective Rate in an ASI Output port. Click **Apply** before you go to the next step.

Go to Service Configuration. Distribute an input TS to the ASI output Port. Refer to 4.2.4

	Port1	Port2	Port3	Port4
Туре	Input ~	Input ~	Output ~	Output
Constant Rate(Mbps)	34.037	34.037	34.037	34.037
Packun/Port1 ac Main	Port2 as Backup)	Off	~	

4.2.3 Built-in IP Output

Go to Module Configuration > Slot5 TSIP [Embedded] > Output.

Channel	Enable Channel	Source Port	Dest IP Address	Dest Port	Protocol	Encap Num TS Packets	Time To Live	Constant Rate(Mbps)	Enable VLAN	VLAN ID	Enable Dest MAC	Dest MAC
1	\checkmark	10000	227.10.20.80	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
2	\checkmark	10000	227.10.20.81	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
5 <mark>-</mark>	\checkmark	10000	227.10.20.82	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
		10000	227.10.20.83	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
		10000	227.10.20.84	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
		10000	227.10.20.85	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
		10000	227.10.20.86	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
		10000	227.10.20.87	1234	UDP ~	7 ~	128	25.000	Disable v	1	Disable ~	00-00-00-00-00
		10000	227.10.20.88	1234	UDP ~	7 ~	128	25.000	Disable v	1	Disable ~	00-00-00-00-00
0		10000	227.10.20.89	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
1		10000	227.10.20.90	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00
2		10000	227.10.20.91	1234	UDP ~	7 ~	128	25.000	Disable ~	1	Disable ~	00-00-00-00-00

Apply Refresh Previous page Next page

11

Check the small boxes to open output channels. Choose **Protocol**. Enter **IP address, Dest Port** and **Constant Rate**. Click **Apply** before you go to the next step.

Go to Service Configuration. Distribute an input TS to the TSIP output Port. Refer to 4.2.4

4.2.4 Configuring Output in Service Configuration

Drag a service to the Decoder

• Go to **Service Configuration**, right-click on the TS1 under Board2. Click **Add TS** to generate an empty TS in Port1. An empty TS contains 0 service.



 Long click on a service in the input TS, and drag it to the **Program** in the Decoder Port1 TS1. Drop it until a blue arrow appears on the left of the **Program**. Click **Apply**.
 See the following image. There is an input service (High Definition Jade) in ASI Port1 TS1. After drag-and-drop operation, you can see it in Decoder Port1 TS1.



Input Program Info : Program ~	Output Program Info : Program ~
 Board1[TSIP+02] Board4[ASI[Embedded]] Port1 TS1(OriginalNetworkID:32766,TsID:1)[DVB] Programs(1 Services) High Definition Jade EMMs(0) OtherPIDs(0) Port2 Board5[TSIP[Embedded]] 	 Board2[Decoder-CC] Port1 TS1(OriginalNetworklD:1,TslD:1) Programs(1 Services) High Definition Jade EMMs(0) OtherPIDs(0) Port2 TS1 Board4[ASI[Embedded]] Board5[TSIP[Embedded]]

One Decoder Port decodes only one service. But you can drag more than one service from input to embedded ASI and TSIP output TS's, which is called multiplexing.

Drag a TS to an output port

• Right-click on an existing input TS, drag and drop it on an empty output TS. See the following image. Click **Apply**.

Refresh Apply Save ClearAll	
Input Program Info : Program \vee	Output Program Info : Program ~
 Board1[TSIP+02] Board4[ASI[Embedded]] Port1 TS1(OriginalNetworkID:32766,TsID:1)[DVB] Port2 Board5[TSIP[Embedded]] 	 Board2[Decoder-CC] Board4[ASI[Embedded]] Board5[TSIP[Embedded]] Port1 TS1(OriginalNetworkID:32766,TsID:1)[DVB]

A TS cannot be distributed to a Decoder Port in this way. You should always generate an empty TS in Decoder in advance.

4.3 Other Configurations

4.3.1 Delete Input TS

Right-click on a TS under an input port. Click Clear TS to remove this input TS. Click Apply.



4.3.2 Bypass Input TS

Right-click on a TS under an input port. Click **Bypass TS** to passthrough this TS. A bypassed TS and the services in this TS will not be multiplexed. SMP181 will not change anything in a TS if you bypass it.



4.3.3 Delete a Output TS/Program/PID

Move the cursor to a TS under an output port, a red cross will appear after this TS. Click the red cross to delete this TS. Click **Apply**.



14

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Move the cursor to any service or PID in this service, you can delete it whenever you can see the red cross.

4.3.4 Edit TS Info

utput Program Info : Program 🗸	
🗄 🦲 Board2[Decoder-CC]	
Board4[ASI[Embedded]]	
Board5[TSIP[Embedded]]	
🖻 🤤 Port1	
STS1(OriginalNetworkID:32766	Jana
Programs(1 Services)	Edit TS Info(DVB)
🕀 🦲 High Definition Jade	SI Setting(DVB)
EMMs(0) OtherPIDs(0)	

Right-click a TS under an output port, then click **Edit TS Info** to change service name, PID's, TS ID and Original Network ID.

Original I	Network ID			32766			Ts ID			1	
Service Name	Provider Name	Service ID	PMT PID	PCR PID	Service Type		ES PID	Running Status	Free CA Mode	EIT schedule flag	EIT present following flag
						851	Video(H264)				
High Definitio	TVB	85	850	851	1	852	Private Data/AC3	4	0	1	1
						1001	User Private				
	Original Service Name High Definitio	Criginal Network ID Service Name Provider Name High Definitio TVB	Original Network ID Service Name Provider Name Service ID High Definitio TVB 85	Original Network ID Service Name Provider Name Service ID PMT PID High Definitio TVB 85 850	Original Network ID 32766 Service Name Provider Name Service ID PMT PID PCR PID High Definitio TVB 85 850 851	Original Network ID 32766 Service Name Provider Name Service ID PMT PID PCR PID Service Type High Definitio TVB 85 850 851 1	Original Network ID 32766 Service Name Provider Name Service ID PMT PID PCR PID Service Type High Definitio TVB 85 850 851 1 852 1001 1001 1001 1001 1001 1001 1001	Original Network ID 32766 Ts ID Service Name Provider Name Service ID PMT PID PCR PID Service Type ES PID High Definitio TVB 85 850 851 1 852 Private Data/AC3 1001 User Private	Original Network ID 32766 Ts ID Service Name Provider Name Service ID PMT PID PCR PID Service Type ES PID Running Status High Definitio TVB 85 850 851 1 852 Private Data/AC3 1001 User Private	Original Network ID 32766 Ts ID Service Name Provider Name Service ID PMT PID PCR PID Service Type ES PID Running Status Free CA Mode High Definitio TVB 85 850 851 1 852 Private Data/AC3 4 0 1001 User Private 1001 User Private 1 1001 1001 1001	Original Network ID B2766 Ts ID Ts ID Ts ID Ts ID Id Service Name Provider Name Service ID PIMT PID PCR PID Service Type ES PID Running Status Free CA Mode EIT schedule flag High Definitio TVB 850 851 1 852 Private Data/AC3 4 0 1

 $\boxed{\blacksquare}$ Be careful when you change any PID value to avoid PID conflict within a TS.

4.3.5 PSI/SI

Right-click a TS under an output port, then click **SI Setting** to edit NIT, BAT and SDT. This feature only applies to TS in embedded ASI and TSIP board. It does not apply to the TS in Decoder.



15

DVBCommunity - сообщество профессионалов ЦТВ https://dvbcommunity.ru/

Part 5 Equipment Configuration

5.1 System

	192.168.001.241	
Subnet Mask	255.255.255.000	
Gateway	192.168.001.001	
Trap IP Address1	000.000.000.000	Enable
Trap IP Address2	000.000.000.000	Enable
EIT Mux	Disable ~	
NIT/SDT Bypass	Disable ~	
CAT Bypass	Disable ~	
Output TS Standard	DVB 🗸	
PAT/PMT Send Interval(ms)	100 🚖	
SDT Send Interval(ms)	100 🚖	
Mac Address	A0-69-86-00-91-3B	
Priority Encoding	Auto ~	

Default Click to restore factory settings. SMP181 will reboot by itself after Default process.

Reboot Click to restart this unit without power off.

5.2 Version Information/Upgrade

Version Information							
Module Name	Components	Current Software Version	Compatible Software Version	Hardware Version			
Mainboard	Mainboard	V4.2.87	V4.2.87	V2B(0000)			
TSID:02	TSIP+02	V60.1.7	V60.1.0	V3A(0000)			
1311 102	TSIP+02-Submodule	V60.1.7	V60.1.0	V3A(0000)			
Deceder CC	Decoder-CC	V60.1.4	V60.1.0	V1A(2000)			
Decoder-OC	Decoder-CC-Submodule	V60.1.8	V60.1.0	V1A(2000)			

Advanced

		Browse
Upgrade	Scan Flash	Erase All

Browse Click to select the software. Then click **Upgrade** to start update process. If it is a mainboard upgrade, SMP181 will reboot by itself after upgrade is finished. If it is module upgrade, Go to **Module Configuration** and click **Reboot** to activate the new software.

Erase All Click to delete all the software. Click the square box in front of **Advanced** to view all the software loaded in the mainboard. Always contact the manufacturer when there is a software compatibility problem.

Do not click **Erase All** to delete all the software unless instructed to do so. Do not upgrade any software without contacting the manufacturer to confirm the compatibility condition in advance, especially for the unit in a running system. Do not disconnect management port or power off a unit during upgrade. Otherwise, the upgrade might fail and lead to boot failure. In a boot failure happened, the user may have to return the unit for factory repair.

5.3 License

License Information							
Slot	Chip ID	Board Type	License Info	Last Update Time			
0	0x338783c50400009f	Mainboard	Full License	2017-6-13			
1	0x3377245a0500005f	TSIP+02	Max Input Channel:2,Descramble:Off	2016-9-9			
2	0x3337868c05000092	Decoder-CC	Full License	2016-12-12			
4	0xa069860000026001	ASI[Embedded]	Full License	2011-4-22			
5	0xa069860000026002	TSIP[Embedded]	Max Input Channel:64,Max Output Channel:12	2012-7-29			
			Browse				
	Slot 0 1 2 4 5	Slot Chip ID 0 0x338783c50400009f 1 0x3377245a0500005f 2 0x3337868c05000092 4 0xa069860000026001 5 0xa069860000026002	Slot Chip ID Board Type 0 0x338783c50400009f Mainboard 1 0x3377245a0500005f TSIP+02 2 0x3337868c05000092 Decoder-CC 4 0xa069860000026001 ASI[Embedded] 5 0xa069960000026002 TSIP[Embedded]	Slot Chip ID Board Type License Info 0 0x338783c50400009f Mainboard Full License 1 0x3377245a0500005f TSIP+02 Max Input Channel:2,Descramble:Off 2 0x3337868c05000092 Decoder-CC Full License 4 0xa069860000026001 ASI[Embedded] Full License 5 0xa06986000026002 TSIP[Embedded] Max Input Channel:64,Max Output Channel:12			

License Information is a checklist of licenses. Slot 0 refers to the Mainboard. Even when a module initialization failure happens due to defective hardware, missing software, or incompatibility problem, the Mainboard still has the access to the module's license.

The license file is unique for each module. The user cannot export a license file from one unit and upgrade it in another unit. Contact your provider if you need license update.

5.4 Import/Export Configuration

Export the configuration of a unit, then you can Import it to this unit for qucik configuration recovery when needed.

		Note	
Import: Restoreconfigurati	on fron	n file.	
Export: Export the current and will be useful	configu when re	uration to a file, estoring the co	this file serves as a backup nfiguration.
			Droutes
			Browse

5.5 Login User Management

Change Password	Change Oservarie	
○ Create a User	O Delete a User	
User Name	admin	~
Password		
New Password		
Confirm New Password		

By default, the administrator user name and password are both admin.

LIN If the password is lost, you can perform factory setting on the front panel buttons. In that case, all the configuration will be erased.

5.6 Log

	- Filter
M	odule 🗌 All
5	🛛 SystemControl 🖉 SubboardManager 🖉 license 🖉 TSProcess 🖉 SIProcess 🖓 Parameters 🖓 DataReceiver 🖉 Communicate 🖉 SNM
5	그 FPGADriver 🗹 UI 🖉 Backup 🖉 LOG 🖉 ALARM 🖉 STATUS 🖉 OS 🖉 DS2432 🖉 FLASH
5	I TSIP 🗸 SISend 🗸 NMG 🖌 LOADER 🗸 SubBoard 🖉 AsiSwitch
ту	/pe 🗌 Ali
5	⊇ Error ☑ Warning ☑ Info
ī	Set Filter

Log records the operations and activities of the SMP181. We may request an exported log file from user for troubleshooting or other use.

Part 6 Appendices

Appendix A - Warranty

We warrants this instrument against defects from any cause, except acts of God and abusive use, for a period of 1 (one) year from date of purchase. During this warranty period, we will correct any covered defects without charge.

Appendix B - After-Sales Support

Please contact our sales/regional representatives for any help, product information, and troubleshooting.

Returning Products for Service

The SMP181 is a delicate piece of equipment and needs to be serviced and repaired by the manufacturer. In order to expedite this process please carefully read the following items.

• Confirm the required component

Before any product can be returned for service, the client ought to contact our sales representatives and after-sales support department by means of email to confirm the need to return the product or part of the product.

Collect the Serial Numbers to obtain RMA Number

Serial Number (SN) is printed on a label on the chassis and modules. To create a RMA number, SN must be submitted to support department. Once the RMA number has been issued to the client, the unit/component needs to be packaged and shipped back to the manufacturer. It's best to use the original box and packaging for the product but if this not available, check with the service department for the proper packaging instructions. RMA Number should be specified in the delivery bill or written on the package.

Do not return any power cables or accessories unless instructed to do so.