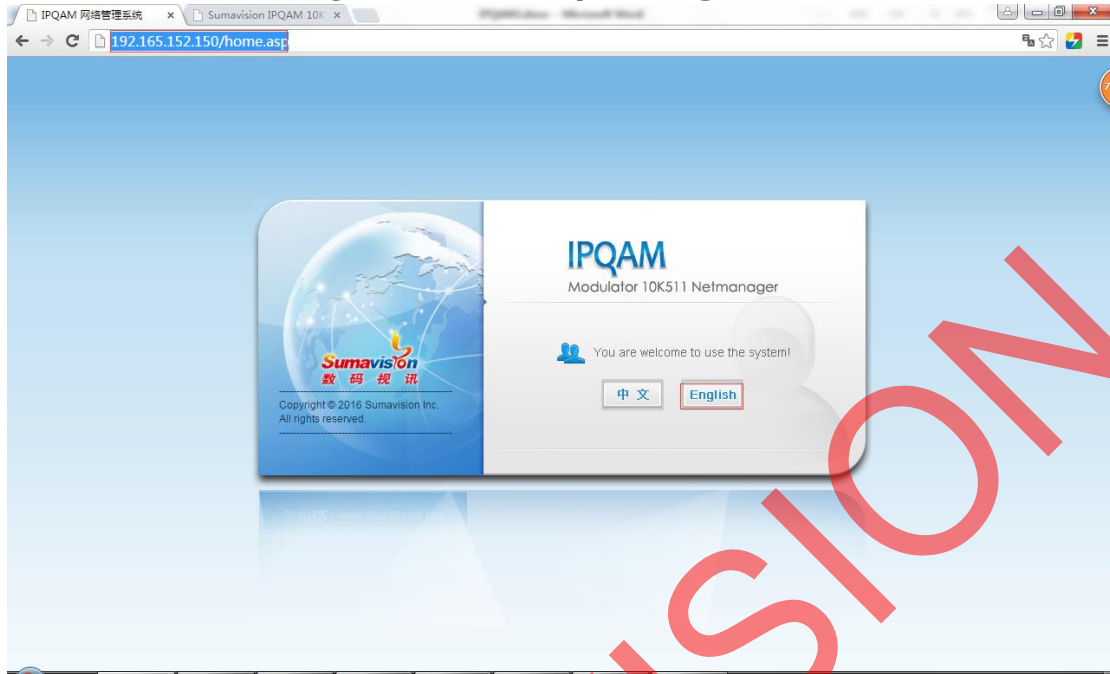




## IPQAM3.0 Backup configuration



Enter IP address of IPQAM3.0 on web browser, choose English, the login is Admin, password is sumavisionrd.

## GbE input ports backup



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Choose Cards, Input.

Choose Current Active Port, 1 means GbE port 1 is main port.

Choose Backup method, 1+1 means GbE port 1 and 2 are main and backup, 3 and 4 are main and backup. All channel means 4 GbE ports all can be used for receiving.

Choose Detection Mode of 1+1, there are 3 modes: On GbE link only, On Gbe link with IP, On Gbe link with UDP.

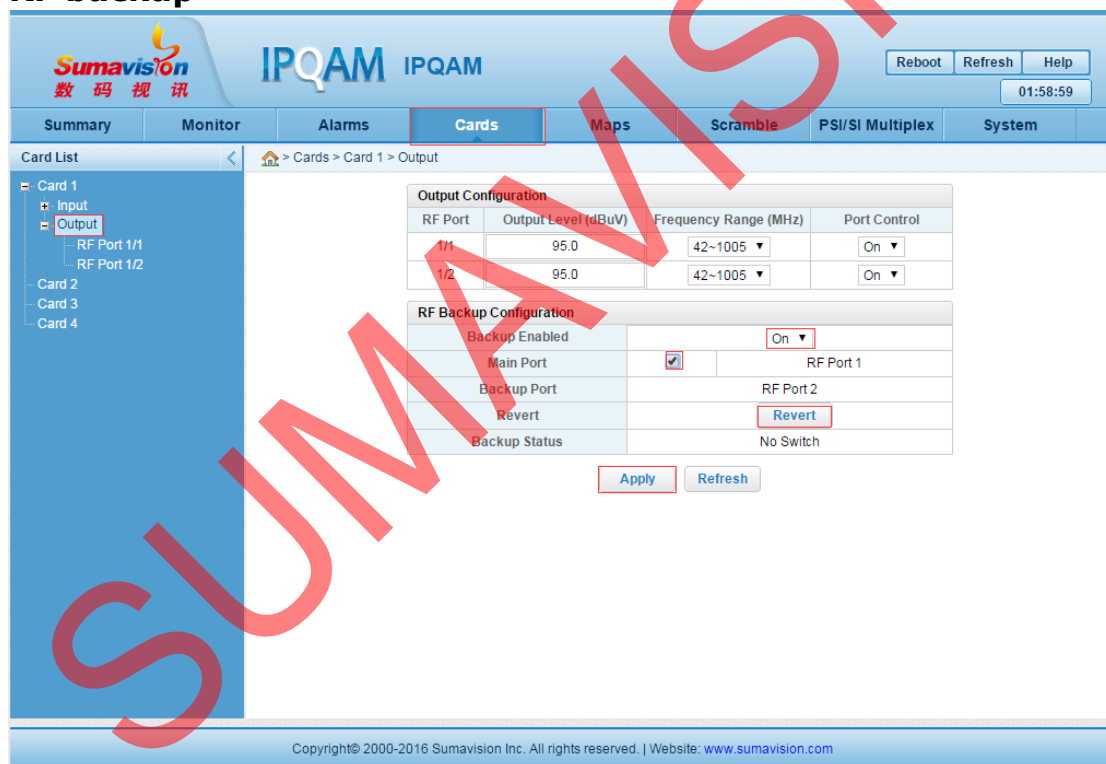
Make Backup Enable enable.

Set Check Time.

Set Revert to Primary, enable means when main port is normal, it can revert from backup port to main, disable means when main port is normal, keep on backup port.

Set Revert Check Time.

## RF backup



The screenshot shows the Sumavision IPQAM web interface. The 'Cards' tab is selected in the navigation menu. The left sidebar shows a tree view with 'Card 1' expanded to 'Output'. The main content area displays the 'RF Backup Configuration' page. It includes a table for 'Output Configuration' and a section for 'RF Backup Configuration' with various settings and buttons.

RF Port	Output Level (dBuV)	Frequency Range (MHz)	Port Control
1/1	95.0	42-1005	On
1/2	95.0	42-1005	On

Backup Enabled	<input type="checkbox"/>	On
Main Port	<input checked="" type="checkbox"/>	RF Port 1
Backup Port	<input type="checkbox"/>	RF Port 2
Revert	<input type="checkbox"/>	Revert
Backup Status	<input type="checkbox"/>	No Switch

Buttons: Apply, Refresh

Choose Cards, Output.

Turn Backup Enable On.

Choose Main Port RF 1.

Then Apply. When main RF port is abnormal, switch to backup port.

Click Revert, can revert from backup port to main port.

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## Cards backup

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Choose System, Card backup.

Choose 1+1 Backup, it means Card 1 and 2 are main and backup, Card 3 and 4 are main and backup.

Click Enabled.

Click Sync, all parameters will copy from card 1 to card 2.

If you need switch from backup card to main card , click Revert.

Choose 1+N Backup, it means Card 4 is backup card for Card 1, 2 and 3.

Then choose Card Backup Switch Condition.

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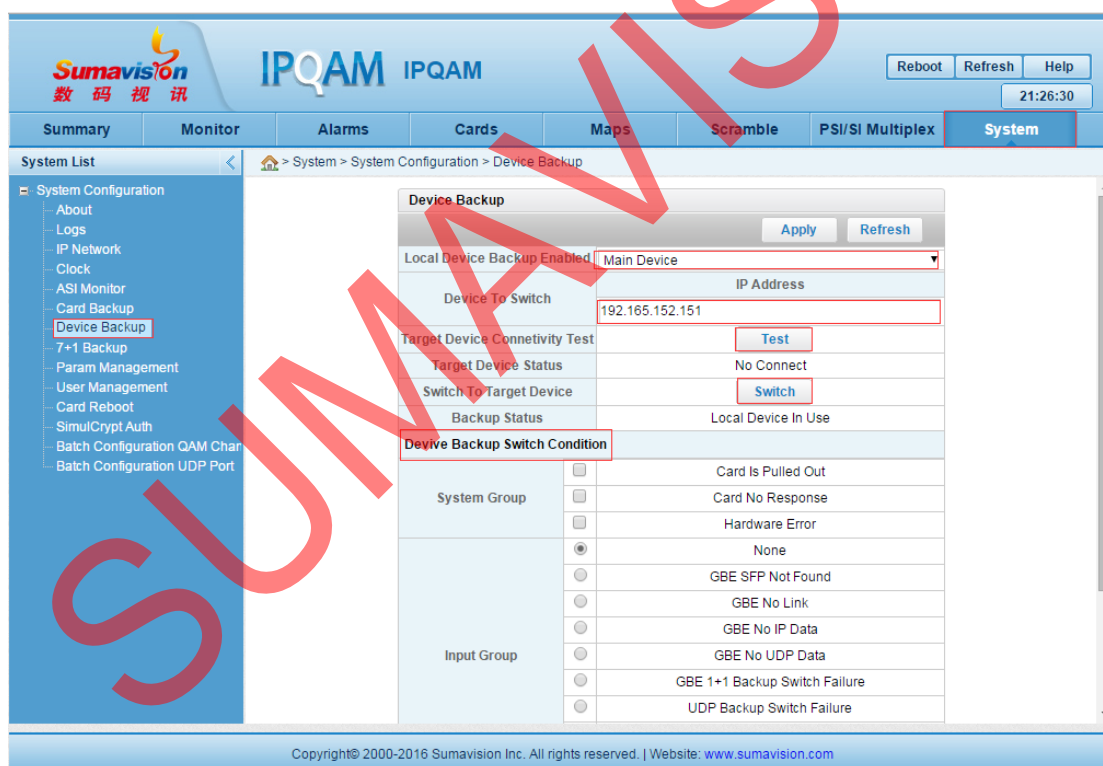
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## Device backup



The screenshot shows the 'Device Backup' configuration page in the Sumavision IPQAM web interface. The page has a blue header with the Sumavision logo and 'IPQAM IPQAM' text. A navigation menu on the left lists various system configuration options, with 'Device Backup' highlighted. The main content area contains a 'Device Backup' form with the following fields and options:

- Local Device Backup Enabled:** A dropdown menu set to 'Main Device'.
- Device To Switch:** A text input field containing the IP address '192.165.152.151'.
- Target Device Connectivity Test:** A 'Test' button.
- Target Device Status:** Displays 'No Connect'.
- Switch To Target Device:** A 'Switch' button.
- Backup Status:** Displays 'Local Device In Use'.
- Device Backup Switch Condition:** A list of radio buttons for selecting a condition:
  - Card Is Pulled Out
  - Card No Response
  - Hardware Error
  - None
  - GBE SFP Not Found
  - GBE No Link
  - GBE No IP Data
  - GBE No UDP Data
  - GBE 1+1 Backup Switch Failure
  - UDP Backup Switch Failure

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Choose System, Device Backup.

Choose Local Device Backup Enabled: Main Device or backup device.  
Enter IP Address of device to switch.

Click Test to check the communication between main device and backup device.

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Click Switch you can switch to backup or main device.  
Choose Device Switch Condition.

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## IPQAM3.0 Scramble configuration

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- Choose Scramble.
- Choose CAS Group 1.
- Set CAS Version.
- Turn on CAS Switch.
- Set CAS ID.
- Set Main ECMG IP.
- Set Main ECMG Port.
- After that, click Apply to save.

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Sumavision 数码视讯 IPQAM IPQAM Reboot Refresh Help 23:31:41

Summary Monitor Alarms Cards Maps Scramble **PSI/SI Multiplex** System

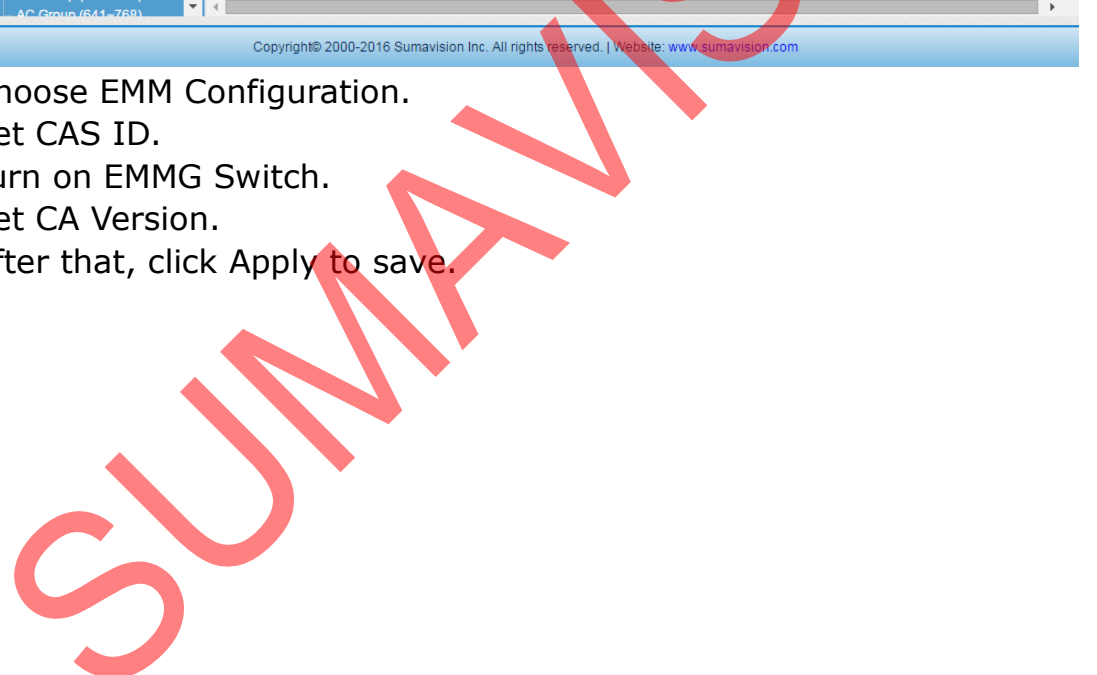
Scramb List > Scramb > EMM > EMM Configuration

EMM Configuration

EMMG No.	EMMG Name	CAS ID	Sub CAS ID	EMMG Switch	EMMG Mode	TCP Port	UDP Port	EMMG Bitrate	CA Version No.	EMMG Description
EMMG 1	Emm1	0x4ad2	0x1	Off	TCP	3000	3000	500	No.2	
EMMG 2	Emm2	0x4ad2	0x1	Off	TCP	3001	3001	500	No.2	
EMMG 3	Emm3	0x4ad2	0x1	Off	TCP	3002	3002	500	No.2	
EMMG 4	Emm4	0x4ad2	0x1	Off	TCP	3003	3003	500	No.2	
EMMG 5	Emm5	0x4ad2	0x1	Off	TCP	3004	3004	500	No.2	
EMMG 6	Emm6	0x4ad2	0x1	Off	TCP	3005	3005	500	No.2	
EMMG 7	Emm7	0x4ad2	0x1	Off	TCP	3006	3006	500	No.2	
EMMG 8	Emm8	0x4ad2	0x1	Off	TCP	3007	3007	500	No.2	
EMMG 9	Emm9	0x4ad2	0x1	Off	TCP	3008	3008	500	No.2	
EMMG 10	Emm10	0x4ad2	0x1	Off	TCP	3009	3009	500	No.2	
EMMG 11	Emm11	0x4ad2	0x1	Off	TCP	3010	3010	500	No.2	
EMMG 12	Emm12	0x4ad2	0x1	Off	TCP	3011	3011	500	No.2	
EMMG 13	Emm13	0x4ad2	0x1	Off	TCP	3012	3012	500	No.2	

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- Choose EMM Configuration.
- Set CAS ID.
- Turn on EMMG Switch.
- Set CA Version.
- After that, click Apply to save.



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Sumavision 数码视讯 IPQAM IPQAM Reboot Refresh Help 23:45:46

Summary Monitor Alarms Cards Maps Scramble PSI/SI Multiplex System

Scramb List < > Scramb > Card 1 > RF Port 1/1 > Channel 1/1.1

Channel Program

Channel Config Apply Refresh

Normal Params

CAS Group Select Group 1

Key Mode Random

Fixed Key FFFFFFFFFFFFFFFF

CAT Filt No

SCG ID 1

Server Configuration closed closed closed closed closed closed

EMM Group Select Emm1 None None None None None

EMM PID 0x1000 0x1001 0x1002 0x1003 0x1004 0x1005

Start Scramble

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- Choose Channel.
- Choose CAS Group Select.
- Set EMM Group Select.
- Click Start Scramble.
- After that, click Apply to save.

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Sumavision 数码视讯 IPQAM IPQAM

Reboot Refresh Help 23:47:55

Summary Monitor Alarms Cards Maps Scramble PSI/SI Multiplex System

Scramb List < Scramb > Card 1 > RF Port 1/1 > Channel 1/1.1

CAS

- CAS Group 1
- CAS Group 2
- CAS Group 3
- CAS Group 4
- CAS Group 5
- CAS Group 6
- CAS Group 7
- CAS Group 8
- CAS Group 9
- CAS Group 10
- CAS Group 11
- CAS Group 12
- CAS Group 13
- CAS Group 14
- CAS Group 15
- CAS Group 16
- CAS Status

EMM

AC

Card 1

- RF Port 1/1
  - Channel 1/1.1
- RF Port 1/2

Card 2

Card 3

Card 4

Channel Program

Program Scramble Config

Apply Refresh

<input type="checkbox"/> Program List	Access Criteria Data	CAS ID	ECM PID	ECM Private Data
---------------------------------------	----------------------	--------	---------	------------------

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Click Program.

Click Refresh to get programs under this channel, then choose AC for every channel.

After that, click Apply to save.

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## IPQAM3.0 PSI/SI Multiplex configuration

Sumavision 数码视讯 IPQAM IPQAM

Reboot Refresh Help 23:52:07

Summary Monitor Alarms Cards Maps Scramble **PSI/SI Multiplex** System

Card List < > Mux > Card 1 > RF Port 1/1 > Channel 1/1.1

Card 1  
RF Port 1/1  
Channel 1/1.1  
RF Port 1/2  
Card 2  
Card 3  
Card 4

Input

Channel 1/1.1  
UDP:1000(GbE:1,IP:224.1.1.1)[BROADCAST]  
UDP:2000(GbE:1,IP:224.1.1.1)[BROADCAST]

Output

Channel 1/1.1


Refresh

Apply

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Choose PSI/SI Multiplex.

Choose Channel.

Choose programs under multicast from input, choose Channel from Output, then click  to multiplex the programs.

After that, click Apply to save.

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