

H-RF-SWITCH



1. Product Summary

An RF switch is used for signal distribution redundancy or for remote RF switching. Our RF Switch has two inputs and a single output. One of the inputs acts as the primary channel while the second is used for failover protection. When the switch detects that the incoming RF to the primary channel has dropped below a set reference level the unit will immediately switch to the backup channel. The unit can also be switched manually by either its front control panel or remotely via Ethernet SNMP. Our unit features full remote management for setting system parameters an system monitoring.

2. Features, Performance Characteristics

- Low insertion loss, fast switching, high isolation in the entire pass band.
- Support automatic and manual switch modes.
- 19"1U standard rack, hot backup dual power supply modules optional.
- High resolution of RF monitor
- Standard RJ45 Ethernet interface
- Integrate SNMP network management function.
- The switch mode is automatic or manual.
- Switch reference level can be set through the front panel or the Internet.
- Main application:
- CATV RF switching, redundancy backups.
- RF control system.
- Laboratory.

3. Block Diagram





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4. Technique Parameter

	Electric	cal Characteristics
Item	Unit	Technique parameter
Operating frequency band	MHz	5~1003
Insertion loss	dB	≤2
Flatness in band	dB	±0.75
Isolation	dB	70
Input impedance	Ω	75
Output impedance	Ω	75
RF connector		F type (Female/male is specified by the user)
Input return loss	dB	≥16
Output return loss	dB	≥16
Longest switch time	ms	15
	Genera	al Characteristics
Operating temperature	°C	-20~+50
Relative humidity	%	0~85
Power supply voltage	V	AC220V (dual power supply feed Optional)



5. Structure Description



	0		
5	LCD status display	6	CANCEL key (ESC key)
7	DOWN key (down)	8	UP key (up)
9	Enter key (right key)	10	-20dB output RF detection
11RF input of B channel12RF input of A c		RF input of A channel	
13	RF output	14	Standard Ethernet interface (transponder)
15	5 AC power input #1 16		Power switch #1
17	AC power input #2	18	Power switch #2
		C.	1 1 41 1 • 6

*Press two buttons (6 and 9) at the same time, after several seconds, the mode is forced to set manual mode and switch to the other channel.

6. Displayed Menus and Operating Instruction

6.1 Boot Display Menu

→1. Parameters View2. IP Setting

Content	Description
\rightarrow	Selection arrow
1. Parameters View	Parameter display and setting menus
2. IP Setting	IP display and setting menus





6.2 Parameter Display and Setting Menus

Content	Description
1.DC+5V-A	+5V monitoring voltage of A power supply
2.DC+5V-B	+5V monitoring voltage of B power supply
3.RFA_IN	RF input level of A path
4.RFB_IN	RF input level of B path
5.SW_MODE:	Switching mode selection; AUTO: auto-switch
	MANU: manual-switch
6. CUR_CHAN	Current working channel;
	Manual-switch the working channel only under the manual-switch mode
7. THRESHOLD	Switch difference value under the auto-switch mode $*$
8. CHANNEL_A	Channel number of A path, setting range (001~200)
9. CHANNEL_B	Channel number of B path, setting range (001~200)

*Note: Under auto switch mode, if the level value of working channel is lower than the setting threshold and the level value of backup channel exceeds the setting threshold, it will switch to the backup channel. The threshold value is adjustable between 70 to 100 dB μ V.

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6.3 IP Display and Setting Menus



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6.5 NMS Software instructions

- 1) Please copy "Wiseview NMS for HFC" folder to the desktop
- 2) Install "vjredist32.exe or vjredist64 " depends of your operating system
 3) Install "Wiseview NMS for HFC.exe"
- 4) Click "Addresses search Units have to be on the same IP Subnet as the computer

Addresses each (*) Alam sound OuyOff (f) Rust-ime Parameter Analyzer (*) Hidosy alam log • Activity / Eventlog • Lister management (*) Hide all docked view • Show all docked view • About • Evit	Wiseview NMS for HFC	INSTANTSUPPORT	<u> </u>	0 X
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		Begin IP			
		192.168.1.2			
		Community Stop IP			
		public 192.168.1.255			
			1		
		Start Stop			

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5) Right click and register IP search results

🕼 Wiseview NMS for HFC			- 0 ×
Tree view 0 × Parameter view	4 ≬ 🗙	Public attribut	tes 🏾 🗛
Device list		Name	Value
Search result		Name	
		Description	
(b) 📑 182.108.0.167		Contact	
9 192, 168, 0, 168		Position	
		Power-time	
IP search results			
Right click			
Search X			
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192.168.0.2			
Community Stop IP			
public 192.168.0.255			
102 100 0 255			
132.160.0.233 3Kar 3Kop			
		<	

6) Name the device and click OK

Parameter v	iew		d ▷ x Public attrib	outes
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irch regult			Name	
			OID	
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192 169 0 169			Contact	
152.100.0.100			Position	
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		/ Name It		
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	Regist device	C 20 / ^		
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	L Koot			
		ILB61-RA		
		PO Community		
		The Community		
		public		
		DW Community		
		Rw Community		
		public		
		Selected group		
		OK		

7) Click each device on the left hand column to see the all parameters



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