

WS-1000RF Switch



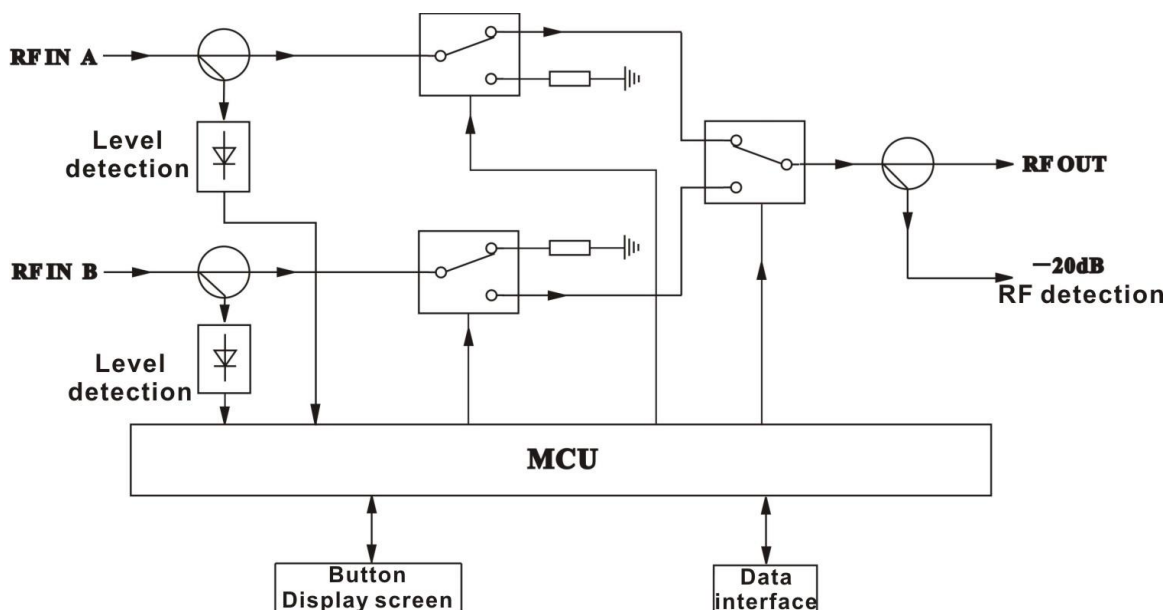
1. Product Summary

WS-1000RF Switch is suitable for backup switch in CATV headend room. The maximum operating bandwidth is up to 1GHz. Adopt high performance and reliability switching devices and built-in embedded automatic monitoring system, it can monitor remotely by network management system.

2. Performance Characteristics

- Low insertion loss, fast switching, high isolation in the entire passband.
- Support automatic and manual switch modes.
- LCD displaying on the front panel; support national standard grade II network management transponder.
- 19"1U standard rack, hot backup dual power supply modules optional.

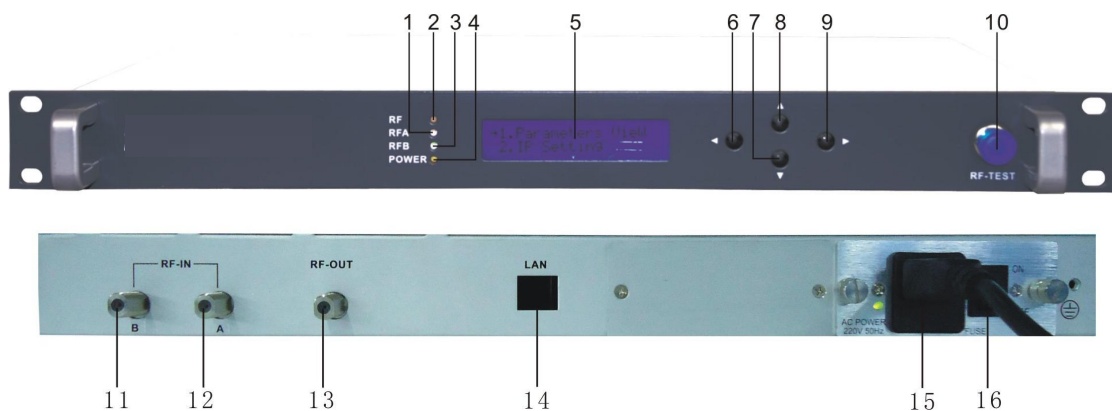
3. Block Diagram



4. Technique Parameter

Electrical 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
General Characteristics		
Operating temperature	℃	-20~+50
Relative humidity	%	0~85
Power supply voltage	V	AC220V (dual power supply feed Optional)

5. Structure Description



1	Working indicator of A channel	2	RF output status indicator (green: normal; red: no output)
3	Working indicator of B channel	4	Power indicator
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
11	RF input of B channel	12	RF input of A channel
13	RF output	14	Standard Ethernet interface (transponder)
15	AC power input	16	Power switch

***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.**

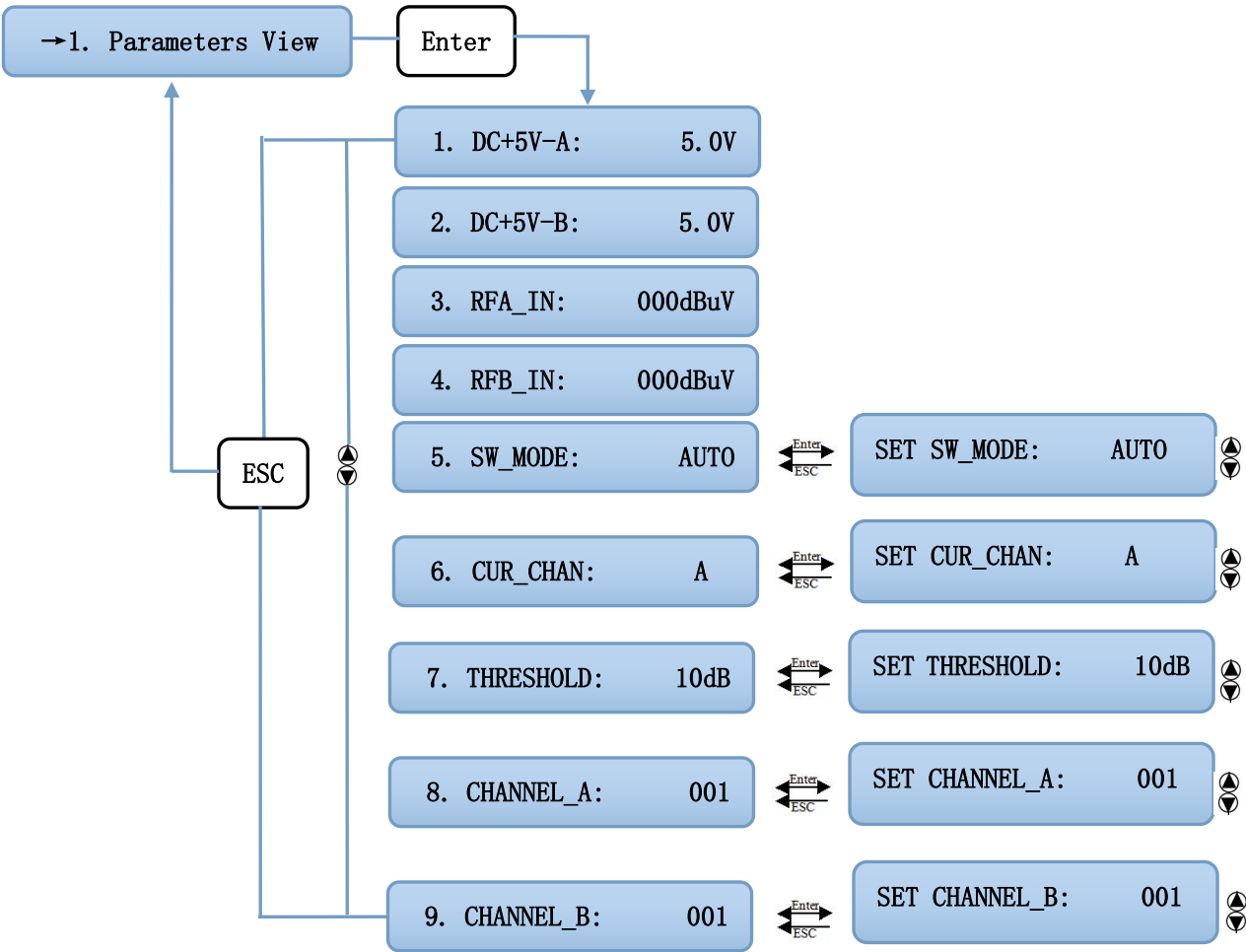
6. Displayed Menus and Operating Instruction

6.1 Boot Display Menu

→1. Parameters View
2. IP Setting

Content	Description
→	Selection arrow
1. Parameters VieW	Parameter display and setting menus
2. IP Setting	IP display and setting menus

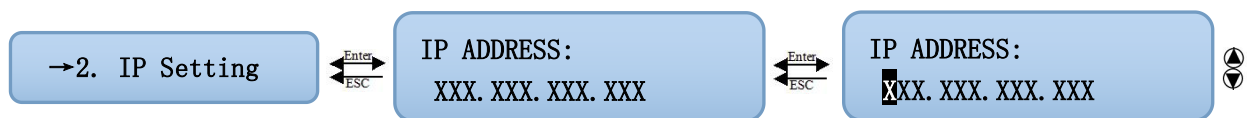
6.2 Parameter Display and Setting Menus



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 dBμV.

6.3 IP Display and Setting Menus



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