



**AT5000 AFDR2  
Rack-Mounted  
Redundant  
Forward Receiver**

**Quick Reference  
Guide**

**Revision 2A**

ACT AT5000 1RU Redundant Forward Receiver

Quick Reference Guide

ACT Document Number: AT5000 AFDR2 QRG Revision 2A

Quick Reference Guide Revision 2A

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This document is produced to assist professional and properly trained personnel with installation and maintenance issues for the product. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.

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Revision History

Revision	Date	Reason for Change
1A	07/14/2023	Initial release
1B	06/14/2025	Update format
2A	02/20/2025	Add Telnet Instruction Chapter

## Table of Contents

1 Precautions .....	5
2 Overview.....	5
3 Features .....	6
4 Application Diagram .....	6
5 Block Diagram.....	7
6 Specifications.....	7
7 Panel Guide.....	9
8 Installation .....	10
8.1 Preparation before installation .....	10
8.2 Installation.....	10
9 Front Panel LED Guide .....	11
10 Web GUI Operation Guide .....	15
10.1 Web Management .....	15
10.2 Real Time Device Status .....	18
10.3 Page Navigation Bar .....	19
10.4 Device Setting .....	19
10.5 Alarm Status.....	20
10.6 Alarm Properties Setting.....	20
10.7 Network Setting .....	21
10.8 Change Password .....	22
10.9 Restore Settings .....	22
10.10 Update Firmware .....	23
10.11 Device Logs.....	23
11 Telnet Instruction .....	24

11.1 Command line and instructions ..... 24

12 Notes ..... 25

13 Warranty Terms ..... 25

## 1 Precautions



### Warning

Exposure to class 1M laser radiation is possible. Access should be restricted to trained personnel only. Do not view exposed fiber or connector ends when handling optical equipment.

- Ensure adequate cooling and ventilation as specified.
- The installation and operation manual should be read and understood before units are put into use.
- Always replace protective caps on optical connectors when not in use.
- The typical connectors fitted are SC/APC 8°. **Note:** 8° angle polished connectors must be used.

### Cleaning

Use only a damp cloth for cleaning the front panel. Use a soft dry cloth to clean the top of the unit.

Do not use spray cleaner of any kind.

### Overloading

Overloading wall outlets and extension cords can result in a risk of fire or electric shock.

Use approved electrical cords.

### Damage requiring service

Unplug unit and refer servicing only to Ascent Communication Technology qualified service personnel.

### Servicing

Do not attempt to service this unit yourself. Refer all servicing only to Ascent Communication Technology qualified service personnel.

## 2 Overview

AT5000 1RU Redundant Dual Inputs Forward Receiver offers a flexible, high performance forward receiver platform for CATV forward path transmission in HFC network. Together with ACT 1RU AT5000 XMOD and EDFA optical amplifiers, the 1RU AFDR dual inputs forward receiver provides an ideal long distance, optical redundant high-quality video transmission solution in traditional HFC network and also high density FTTX networks to bring back the data signal from business and subscriber home premises.

AT5000 dual inputs indoor optical receiver is featured in short switching time and low loss, which is mainly used in ring network or redundant standby network. When the main line fails or is lower than the set threshold value, it will automatically switch to the standby line. When the main line returns to normal, it will automatically return to the main line. When device is in the mode of manual forced switching, it can switch to the main line or the standby line as you like.

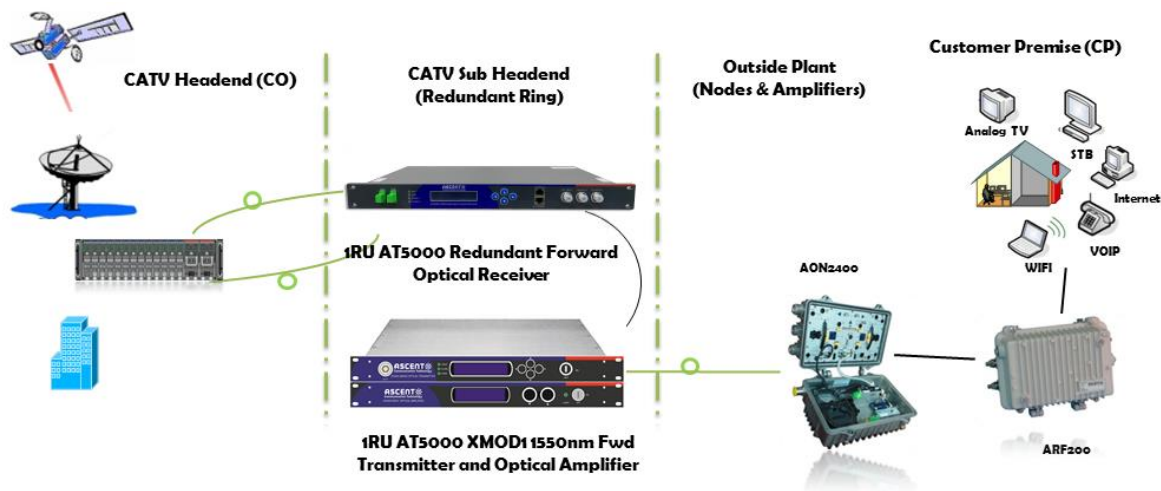
The device adopts high performance and high efficiency O/E converter, the first stage is amplified full GaAs MMIC, and the second stage by gain GaAs power doubler module, which ensure high output level. The whole device is controlled by microcomputer, AGC, ATT and EQ are adjusted by numerical control, which is the best choice for the construction of ring network in large and medium-sized cities.

AT5000 AFDR receiver is equipped with intuitive front panel LCD display to make operator's life easier. The optical receiver is packaged in a self-contained 19" sub-rack of 1 RU with universal mains power supply and SNMP management.

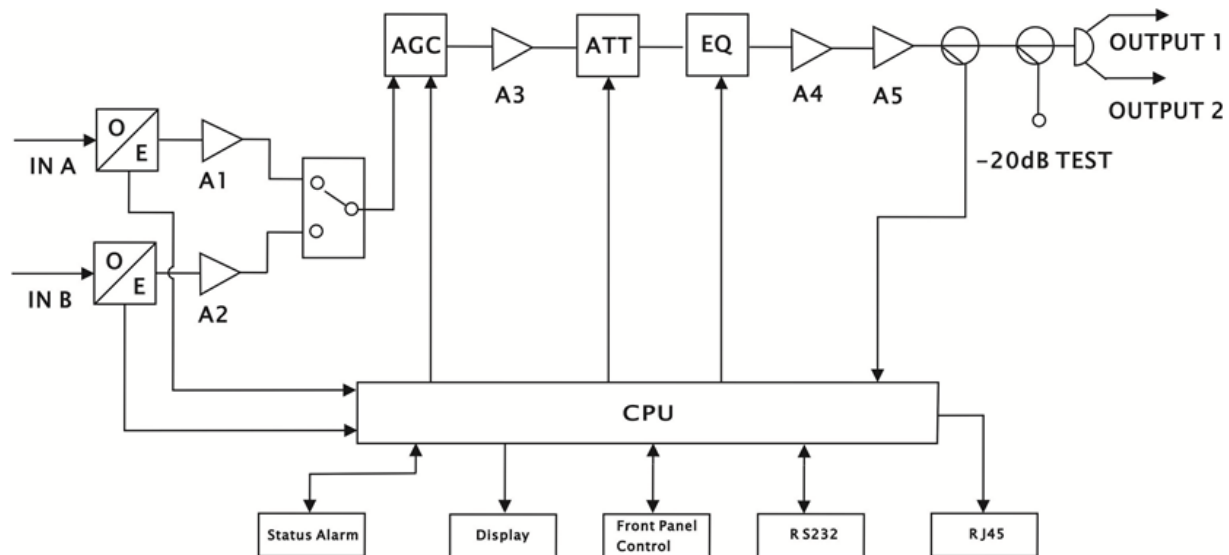
## 3 Features

- Professional RF switching module, short switching time, low loss, with automatic switching and forced manual switching function.
- It adopts high performance photo-detector, operating wavelength 1200 to 1620nm.
- Optical AGC control, when input is within range -7 to +2dBm, the output level remains unchanged and CTB, COS is measured up to the standard.
- High gain, low distortion.
- Built- in dual power supply, automatically switched and hot plug in/out supported.
- The operating parameters of the whole machine are controlled by microprocessor, and the LCD status display on the front panel has many functions such as laser status monitoring, parameter display, fault alarm, network management, etc.; once the operating parameters of the laser deviate from the allowed range set by the software, the system will alarm promptly.
- Standard RJ45 interface is provided, supporting SNMP and WEB remote network management.

## 4 Application Diagram



## 5 Block Diagram



## 6 Specifications

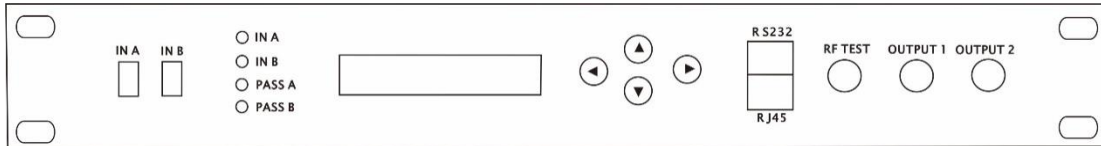
Category	Items	Unit	Index			Description
			Min.	Typ.	Max.	
Optical Index	Operating Wavelength	nm	1200		1620	
	Optical Power Input Range	dBm	-10		+2	
	Optical AGC Range	dBm	-7		+2	
	No. of Input Ports			2		
	Optical Return Loss	dB	45			
	Fiber Connector		SC/APC			FC/APC, LC/APC
	Operating Bandwidth	MHz	47		1000	
	Output Level	dBμV			114	
	Operating Mode		AGC/MGC switching supported			
	Electronically Controlled	dB	0		30	
	ATT Range					
	Electronically Controlled	dB	0		15	
	EQ Range					
	Single Input On-off	dB			60	
	Isolation					
	Isolation Between Two	dB			72	
	Inputs					
	Inputs Switching Time	ms			8	
	Flatness	dB	-0.75		+0.75	
	No. of Output Port			2		
	No. of Test Point			1		
	Test Port	dB		-20		

Category	Items	Unit	Index			Description
			Min.	Typ.	Max.	
Link Index	Return Loss	dB	16			
	Input Impedance	$\Omega$		75		
	RF connector			F Metric/Imperial		Specified by user
	No. of Test Channels			PAL-D/59CH		
	CNR	dB	51.0			Pin=-2dBm
	CTB	dB	65.0			
	CSO	dB	60.0			
General Index	MER	dB	40.0			
	Network Management Interface			SNMP,WEB Supported		
	Power Supply	V	100		240	AC
			-72		-36	DC
	Power Consumption	W			28	Dual Power Supply, 1+1 Standby
	Operating Temp	°C	-5		+65	
	Storage Temp	°C	-40		+85	
	Operating Relative Humidity	%	5		95	
	Dimension	mm	228×483×44			D, W, H
	Weight	Kg	3.2			



## 7 Panel Guide

### Front Panel



S/N	Identification	Items	Remarks
1	IN A	Fiber Input A	Fiber Input A
2	IN B	Fiber Input B	Fiber Input B
3	LCD	LCD Display	To display the parameters of the device
4	IN A	Status of Input A	LED Green ,Input A within requested range LED OFF, input A no input or out of the requested range
5	IN B	Status of Input B	LED Green Input within requested range LED OFF, input B no input or out of the requested range
6	PASS A	Status of working channel A	LED Green, working channel A (default) LED OFF, input A no input
7	PASS B	Status of working channel B	LED Green, working channel B LED OFF, input B no input
8	◀	Button	Back
9	▶	Button	Confirm
10	▲▼	Button	Start menu page turning and set the device
11	RS232	RS232 Port	Local programming
12	RJ45	RJ45 Port	Remote SNMP and WEB supported
13	RF TEST	RF Test Point	-20dBμV
14	OUTPUT 1	RF 1 Output	RF 1 Output
15	OUTPUT 2	RF 2 Output	RF 2 Output

### Rear Panel



S/N	Identification	Items	Remarks
1	⏏	Grounding Port	For Grounding
2	Power1	Power Socket1	
3	Power2	Power Socket 2	

## 8 Installation

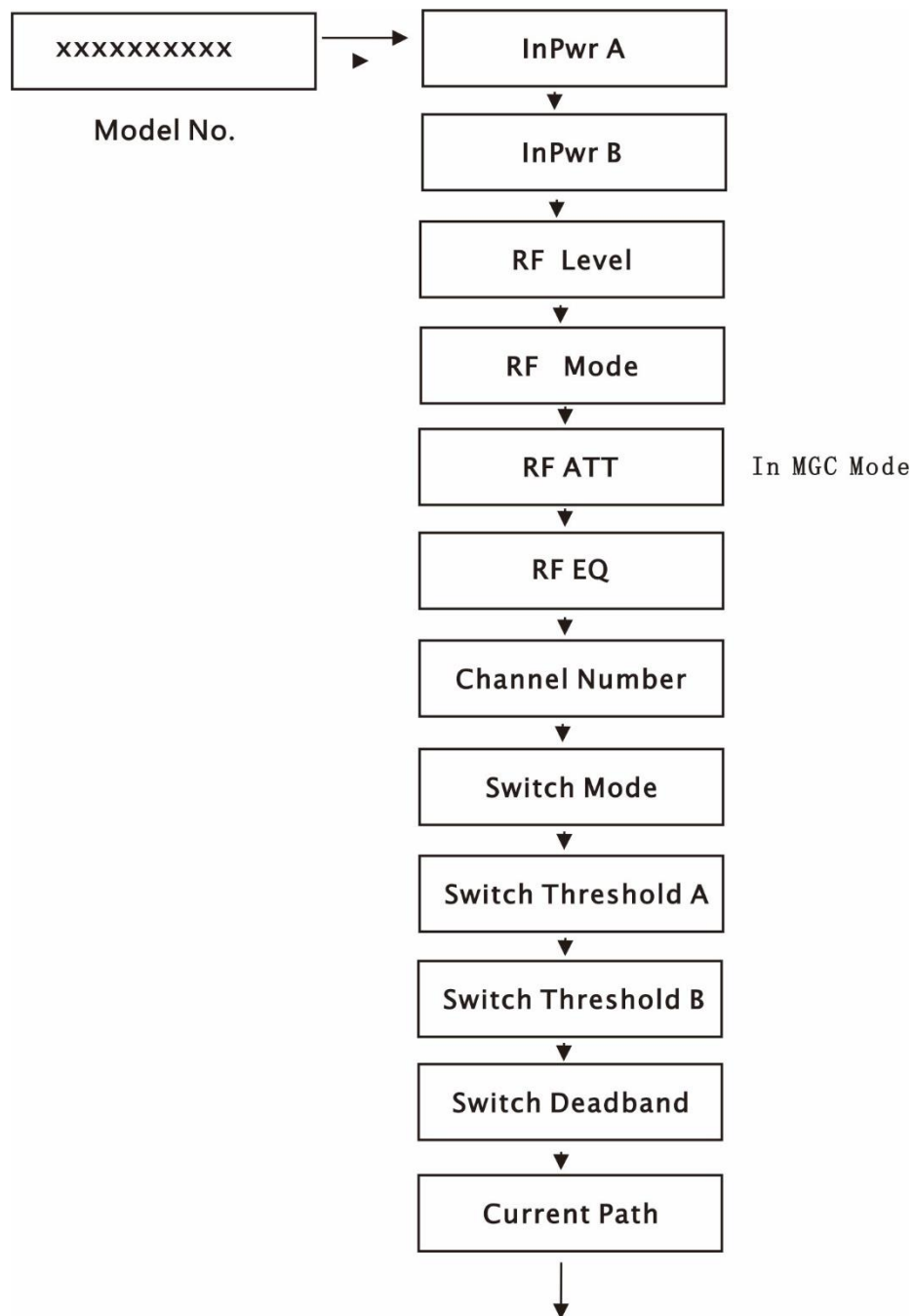
### 8.1 Preparation before installation

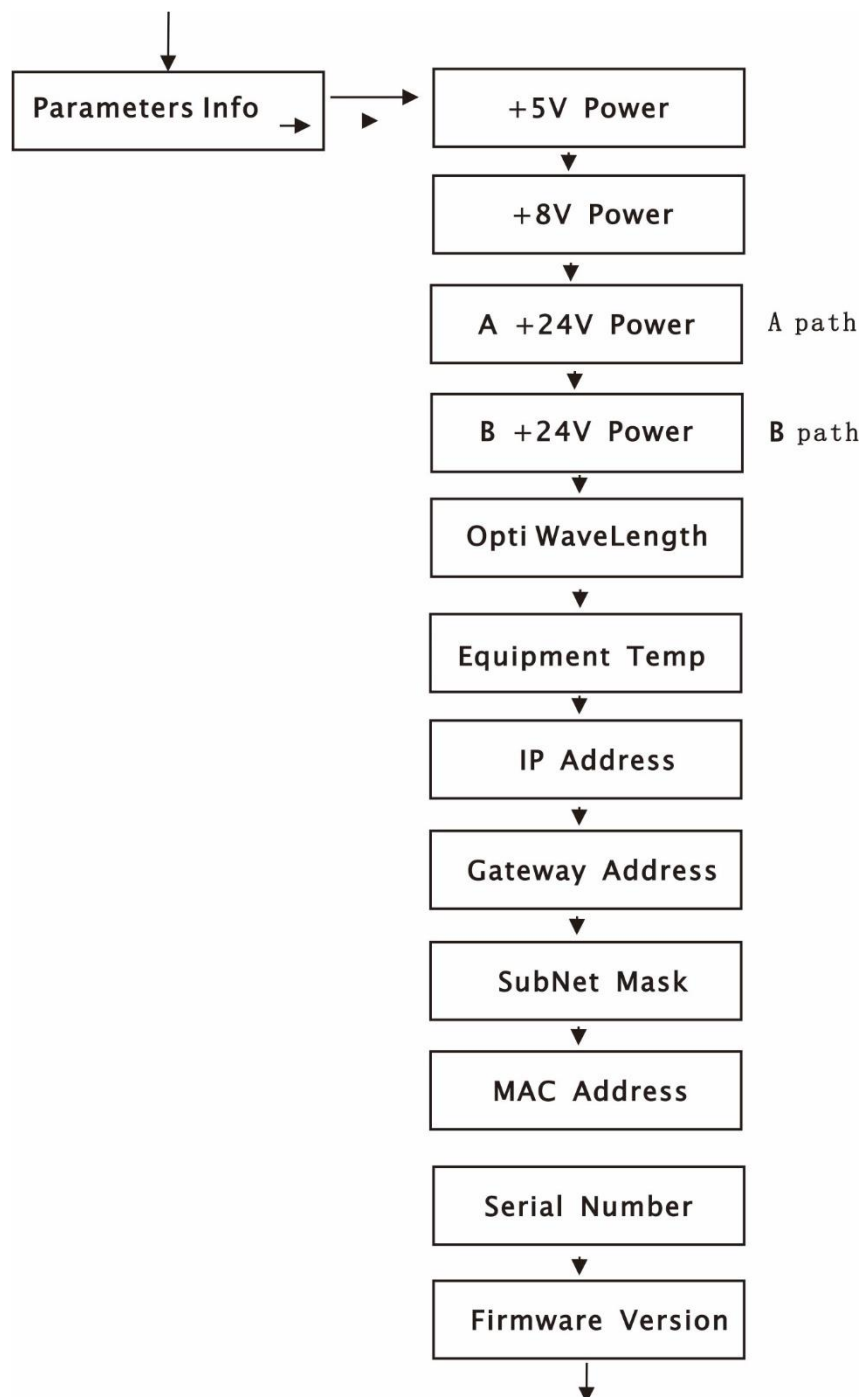
1. Please examine the machine to see if there is distinct.
2. Please examine if the accessories is complete and the quality cards is here. If not, please contact sales or dealer.

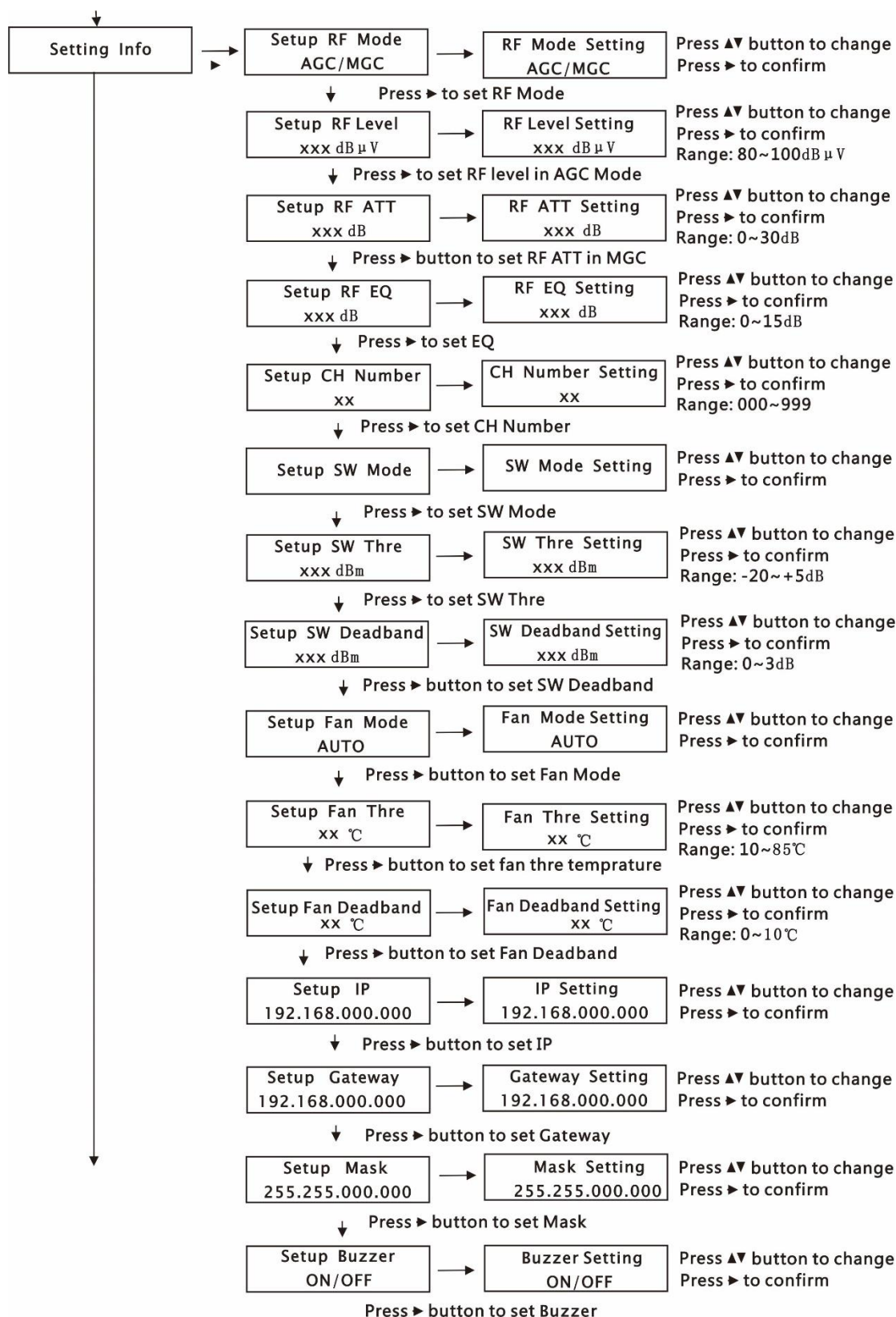
### 8.2 Installation

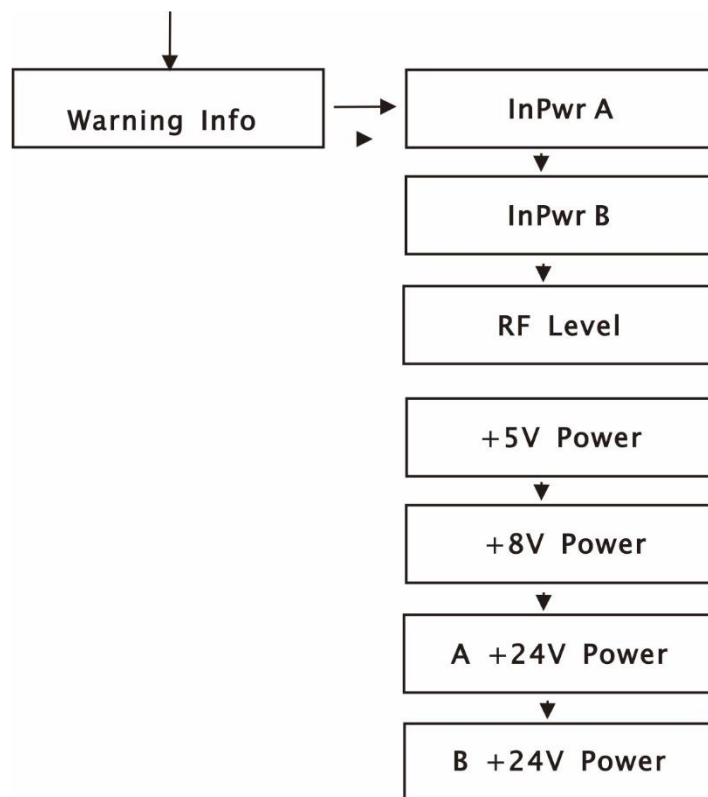
3. Please keep a space about 4.5cm between machines for ventilation.
4. Please make sure: the socket works very well and well grounded; The impedance  $\leq 4\Omega$ ; 220V power with three cables, the middle one should connected to the ground. Incorrect grounding may hurt the device or influence the quality of signal.
5. Please make sure the power supply button in the rear panel turn to OFF before the power supply cable connected.
6. Please keep the interface of the fiber clean before connecting the fiber.

## 9 Front Panel LED Guide







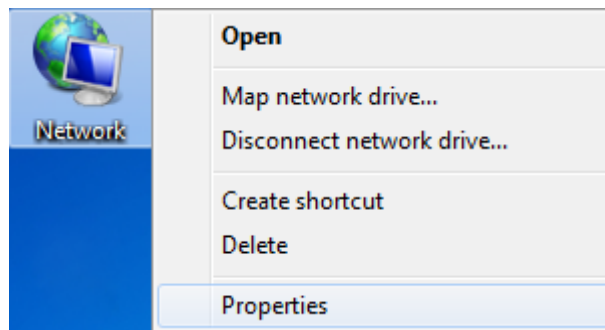


## 10 Web GUI Operation Guide

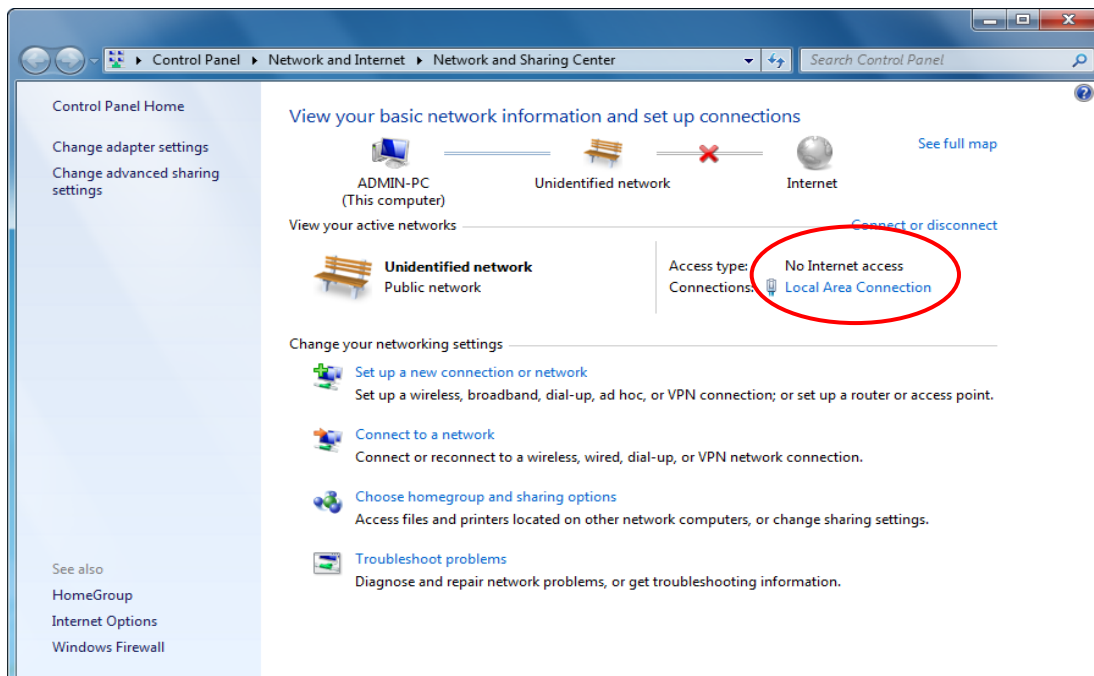
### 10.1 Web Management

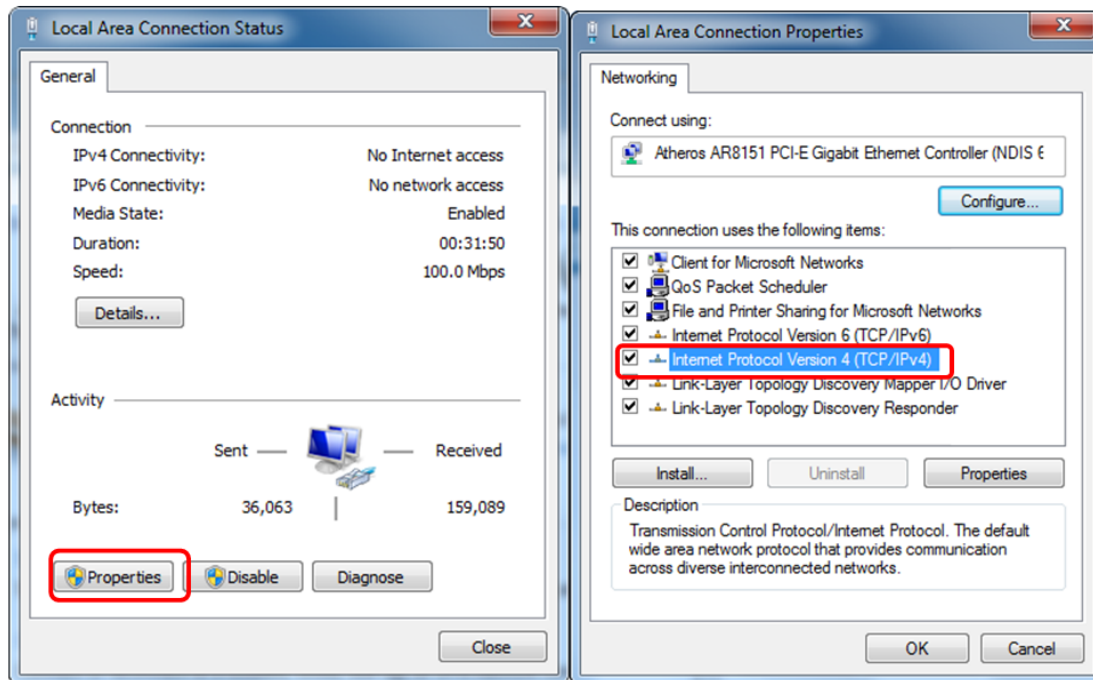
Web server is built in SNMP module. Users can directly view the basic operating parameters and network parameters of the device through the web browser. Popular web browsers include IE of Microsoft, Chrome of Google, Firefox of Mozilla, Opera of software ASA's, etc. The built-in web server of SNMP supports these popular browsers very well. The following diagrams are illustrated by opera browser.

1. First of all, Please find the IP address of the device in the LCD panel menu. The default IP address is 192.168.0.22. Set the IP address of the computer to the same network segment as the device, find the "network" icon on the desktop of windows system, select the icon, right-click the mouse, and select "properties" in the pop-up menu:

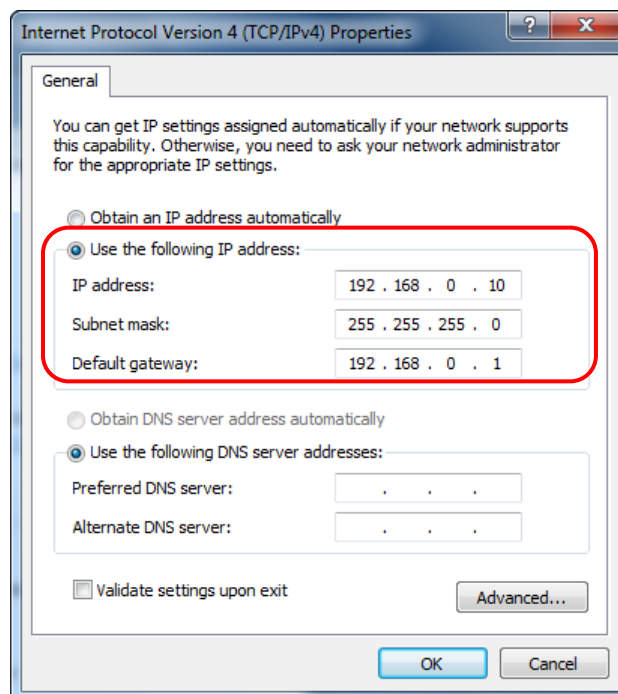


2. Click "Local Area Connection" in the pop-up version.



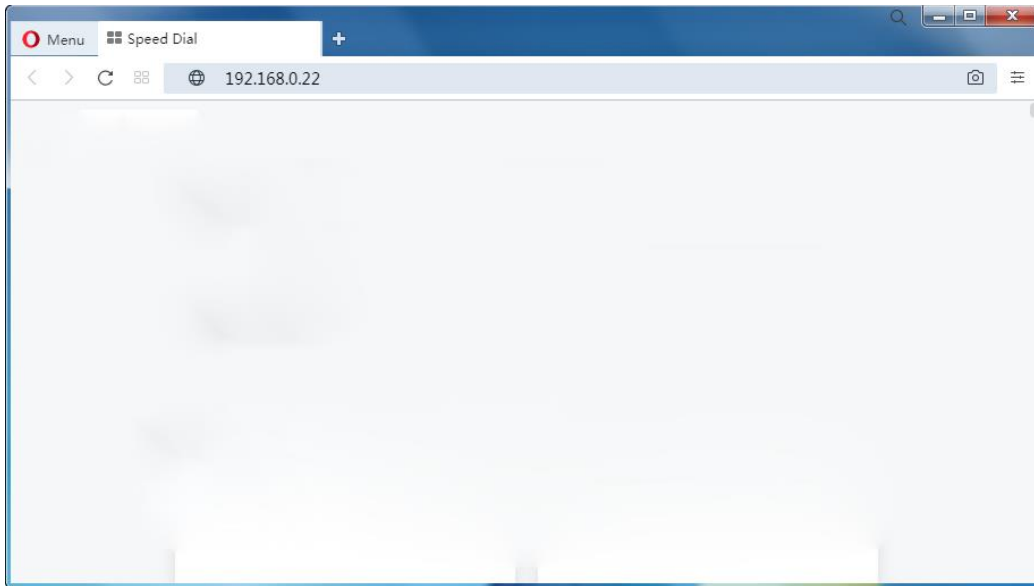


3. Set the IP address to make the IP address and the device in the same network segment, so that the computer can access the device.

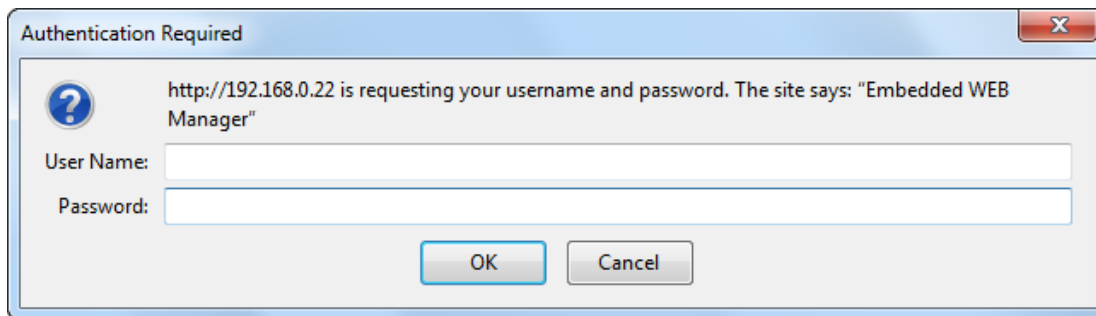




4. Open the web browser and enter the IP address of the device in the address bar of the browser, such as 192.168.0.22.



The browser will pop up a login box.



In the pop-up login user name box, enter User Name: "admin" (Note: all lowercase letters), password: "ascent", and then enter.

The browser displays the device status page by default.

## 10.2 Real Time Device Status

The screenshot displays the 'Device Status' page of the AT5000 AFDR Redundant Forward Receiver WEB Manager. The interface includes a left-hand navigation menu and a main content area with various status parameters and tables.

**Device Status Parameters:**

- Device Model: AT-51-AFDR2-SC-AC2
- Serial Number: 230516127106
- Device Version: V2.31
- Unit Temperature: 37 °C
- Power up time: 0H 4M 25S

**OSW Path and Switch Mode:**

- OSW Path: Path A
- Switch Mode: Prefer A

**Optical Input Power and Switch Threshold Table:**

Index	Optical Input Power	Switch Threshold	Status	Description
1	-99.9 dBm	-10.0 dBm	Fault	Path A
2	-99.9 dBm	-10.0 dBm	Fault	Path B

**Optical Input and RF Output Table:**

Index	Optical Input	Optical Input	RF Output
1	0.0 mW	-99.9 dBm	74 dBuV

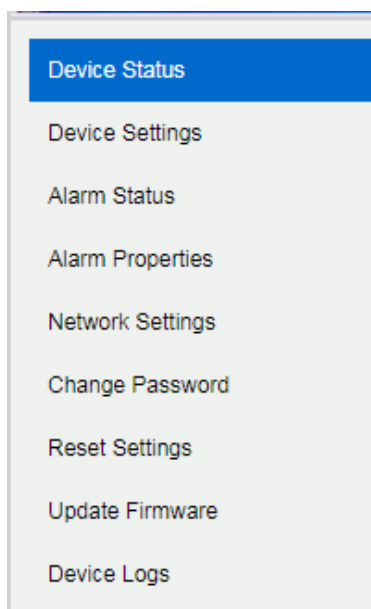
**Power Name and Power Voltage Table:**

Index	Power Name	Power Voltage
1	DC +5V	4.9 V
2	DC +8V	7.9 V
3	DC +24V_A	0.0 V
4	DC +24V_B	23.8 V

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The left side of the page is the menu navigation bar. Click to enter the corresponding menu page.

## 10.3 Page Navigation Bar



## 10.4 Device Setting

**ASCENT** Communication Technology **AT5000 AFDR Redundant Forward Receiver WEB Manager**

Device Status  
**Device Settings**  
Alarm Status  
Alarm Properties  
Network Settings  
Change Password  
Reset Settings  
Update Firmware  
Device Logs

Device Settings

Gain Type:	MGC	Set
Config ATT:	15 dB (0~30)	Set
Config RF EQ:	0 dB (0~15)	Set
Channel Number:	84	Set
Switch Threshold A:	-10.0 dBm (-10.0~2.0)	Set
Switch Threshold B:	-10.0 dBm (-10.0~2.0)	Set
Switch Mode:	Prefer A	Set
Wavelength:	1550 nm (970~1600)	Set

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## 10.5 Alarm Status

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**AT5000 AFDR Redundant Forward Receiver**  
WEB Manager

Device Status  
Device Settings  
**Alarm Status**  
Alarm Properties  
Network Settings  
Change Password  
Reset Settings  
Update Firmware  
Device Logs

Alarm Status

Index	Parameter Name	Alarm Status
1	Unit Temperature	Nominal
2	Optical Input-mW	LOLO
3	Optical Input Status	DiscreteMajor
4	Optical Input-dBm	LOLO
5	RF Output	LOLO
6	DC +5V	Nominal
7	DC +8V	Nominal
8	DC +24V_A	LOLO
9	DC +24V_B	Nominal
10	OSW Path A	DiscreteMajor
11	OSW Path B	DiscreteMajor

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## 10.6 Alarm Properties Setting

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**AT5000 AFDR Redundant Forward Receiver**  
WEB Manager

Device Status  
Device Settings  
Alarm Status  
**Alarm Properties**  
Network Settings  
Change Password  
Reset Settings  
Update Firmware  
Device Logs

Alarm Properties

Index	Parameter Name	HIHI	HI	LO	LOLO	Deadband	Action
1	Unit Temperature (°C)	<input checked="" type="checkbox"/> 85	<input checked="" type="checkbox"/> 70	<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 0	2	Set
2	Optical Input-mW (mW)	<input checked="" type="checkbox"/> 2.0	<input checked="" type="checkbox"/> 1.8	<input checked="" type="checkbox"/> 0.3	<input checked="" type="checkbox"/> 0.1	0.1	Set
3	Optical Input-dBm (dBm)	<input checked="" type="checkbox"/> 3.0	<input checked="" type="checkbox"/> 2.5	<input checked="" type="checkbox"/> -5.5	<input checked="" type="checkbox"/> -6.0	0.2	Set
4	RF Output (dBuV)	<input checked="" type="checkbox"/> 120.0	<input checked="" type="checkbox"/> 115.0	<input checked="" type="checkbox"/> 95.0	<input checked="" type="checkbox"/> 90.0	1.0	Set
5	DC +5V (V)	<input checked="" type="checkbox"/> 6.0	<input checked="" type="checkbox"/> 5.5	<input checked="" type="checkbox"/> 4.5	<input checked="" type="checkbox"/> 4.0	0.2	Set
6	DC +8V (V)	<input checked="" type="checkbox"/> 10.0	<input checked="" type="checkbox"/> 9.0	<input checked="" type="checkbox"/> 7.0	<input checked="" type="checkbox"/> 6.0	0.2	Set
7	DC +24V_A (V)	<input checked="" type="checkbox"/> 28.0	<input checked="" type="checkbox"/> 26.0	<input checked="" type="checkbox"/> 22.0	<input checked="" type="checkbox"/> 20.0	0.2	Set
8	DC +24V_B (V)	<input checked="" type="checkbox"/> 28.0	<input checked="" type="checkbox"/> 26.0	<input checked="" type="checkbox"/> 22.0	<input checked="" type="checkbox"/> 20.0	0.2	Set

Index	Parameter Name	Control	Action
1	Optical Input Status	EnableMajor	Set
2	OSW Path A	EnableMajor	Set
3	OSW Path B	EnableMajor	Set

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## 10.7 Network Setting

**ASCENT**  
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**AT5000 AFDR Redundant Forward Receiver**  
WEB Manager

Device Status  
Device Settings  
Alarm Status  
Alarm Properties  
**Network Settings**  
Change Password  
Reset Settings  
Update Firmware  
Device Logs

Network Settings

Device MAC: 00:B9:A0:30:0C:0D  
Update Identifier: DOR138EG01  
Agent Version: v1.2.0 Refresh

---

Static IP Address: 192 . 168 . 0 . 22 Set  
Subnet Mask: 255 . 255 . 255 . 0 Set  
Default Gateway: 192 . 168 . 0 . 1 Set  
Trap Address 1: 0 . 0 . 0 . 0 Set  
Trap Address 2: 0 . 0 . 0 . 0 Set  
Trap Address 3: 0 . 0 . 0 . 0 Set  
Trap Address 4: 0 . 0 . 0 . 0 Set  
Trap Address 5: 0 . 0 . 0 . 0 Set  
Trap Address 6: 0 . 0 . 0 . 0 Set  
Trap Address 7: 0 . 0 . 0 . 0 Set  
Trap Address 8: 0 . 0 . 0 . 0 Set

---

IPv6 Global Unicast:  
IPv6 Local Link: fe80::2b9:a0ff:fe30:c0d  
Trap IPv6 Host1: :: Set  
Trap IPv6 Host2: :: Set

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**AT5000 AFDR Redundant Forward Receiver**  
WEB Manager

Device Status  
Device Settings  
Alarm Status  
Alarm Properties  
**Network Settings**  
Change Password  
Reset Settings  
Update Firmware  
Device Logs

IPv6 Local Link: fe80::2b9:a0ff:fe30:c0d

Trap IPv6 Host1: :: Set  
Trap IPv6 Host2: :: Set  
Trap IPv6 Host3: :: Set  
Trap IPv6 Host4: :: Set  
Trap IPv6 Host5: :: Set  
Trap IPv6 Host6: :: Set  
Trap IPv6 Host7: :: Set  
Trap IPv6 Host8: :: Set

---

DHCP: Disable Set  
NTP: Enable Set  
NTP Host: pool.ntp.org Set  
DNS1: 223.5.5.5 Set  
DNS2: 0.0.0.0 Set

---

Read Community: public Set  
Write Community: public Set  
Trap Community: public Set  
SNMP Version: V1 Set

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## 10.8 Change Password

The screenshot shows the 'Change Password' page of the AT5000 AFDR Redundant Forward Receiver WEB Manager. The page has a blue header with the Ascent logo and title. A left sidebar contains a menu with options: Device Status, Device Settings, Alarm Status, Alarm Properties, Network Settings, Change Password (highlighted), Reset Settings, Update Firmware, and Device Logs. The main content area is titled 'Change Password' and contains five input fields: Username, Password, New Username, New Password, and Confirm Password. Below these fields are 'Submit' and 'Reset' buttons. The footer contains the copyright notice: 'Copyright © 2011-2009 Ascent Communication Technology Limited'.

## 10.9 Restore Settings

The screenshot shows the 'Restore Settings' page of the AT5000 AFDR Redundant Forward Receiver WEB Manager. The page has a blue header with the Ascent logo and title. A left sidebar contains a menu with options: Device Status, Device Settings, Alarm Status, Alarm Properties, Network Settings, Change Password, Reset Settings (highlighted), Update Firmware, and Device Logs. The main content area is titled 'Restore settings and Reboot device' and contains three sections: 1. 'Reboot device' with a 'Reboot device' button. 2. 'Restore factory settings' with a 'Warning!! Click the restore button, all parameters will be restored to factory default.' message and a 'Restore Factory' button. 3. 'Restore Net parameters' with a list of parameters: IP Address: 192.168.0.22, Subnet Mask: 255.255.0.0, Gateway Address: 192.168.1.1, and All Trap Address: 0.0.0.0. Below this list is a 'Restore net' button. The footer contains the copyright notice: 'Copyright © 2011-2009 Ascent Communication Technology Limited'.



## 10.10 Update Firmware

The screenshot shows the 'Update Firmware' page of the AT5000 AFDR Redundant Forward Receiver WEB Manager. The left sidebar contains a menu with options: Device Status, Device Settings, Alarm Status, Alarm Properties, Network Settings, Change Password, Reset Settings, Update Firmware (highlighted), and Device Logs. The main content area has a header bar with the Ascent logo and title. Below the header, there is a section for firmware updates with a 'Browse...' button and an 'Upload files' button. A warning message states: 'Warning: do not refresh the page or power off !'. Below this is a large QR code with the text 'Scan QR-code to register the device' and a 'Print QR-code' button. The footer of the page reads 'Copyright © 2011-2009 Ascent Communication Technology Limited'.

## 10.11 Device Logs

The screenshot shows the 'Device Logs' page of the AT5000 AFDR Redundant Forward Receiver WEB Manager. The left sidebar contains a menu with options: Device Status, Device Settings, Alarm Status, Alarm Properties, Network Settings, Change Password, Reset Settings, Update Firmware, and Device Logs (highlighted). The main content area has a header bar with the Ascent logo and title. Below the header, there is a section for device logs with a 'Posix TimeSync' button and a 'Clear Logs' button. A table displays the log entries:

Posix Time	System UpTime	Record Content
2001/1/1 上午8:08:29	00:08:29	All log-records cleared.

The footer of the page reads 'Copyright © 2011-2009 Ascent Communication Technology Limited'.

## 11 Telnet Instruction

The account and password are the same as those on the WEB. The default account: admin and default password: ascent.

### 11.1 Command line and instructions

1. help/ls/?  
"help" command: By entering any of the above three instructions, you can obtain the CLI table and a brief introduction.
2. Ip  
Display and set IP parameters. Inputting an address will take effect immediately. Just entering "IP" will display the current IP information. Using "ip ipv6suffix" can set the IPv6 suffix.
3. Mask  
Display and set the netmask.
4. Gateway  
Display and set the gateway.
5. Ip4  
Display and set the IP address, subnet mask and gateway. It is used to set the IP address, subnet mask and gateway simultaneously. The settings need to be committed with "ip4 commit" to take effect. The subnet mask is represented by "/" + "mask bit number", such as 255.255.255.0 is represented as /24, and 255.255.0.0 is represented as /16. You can view the details by using "help ip4".
6. Ip6  
Display and set the IPv6 parameter.
7. Show  
Display network information.
8. Comnty  
Display and set SNMP community, including readonly | readwrite | trap community.
9. Trap  
Display and set trap address. Example: \> trap index x.x.x.x.
10. Trap6  
Display and set the trap address for IPv6.  
Example: \> trap6 index ipv6address.
11. Snmpv3  
SNMPv3-related parameters.
12. Echo  
Display and set the echo status, Example: \> echo on | off.
13. Passwd  
Set the current account password and the new password.  
Example: \> passwd username newpassword confirmpassword.
14. Cls



Clear screen.

15. Ver

Display system information.

16. Reset

Reset the equipment.

17. Exit

Log out of the current telnet session.

## 12 Notes

- a) Static-sensitive pin diode is applied in the receiver, please note that electrostatic protection should be applied in the storage of the device and it should not be stored with corrosive material, and the storage temperature should be between - 40°C and + 85°C.
- b) Please don't block the cooling holes of the device and keep it in good ventilation.
- c) Please use anhydrous industrial alcohol instead of medical alcohol to wash the fiber connector if necessary.

## 13 Warranty Terms

The receivers are covered by limited warranty as specified in standard T&C, which starts from the initial date of your purchase. We provide its customer whole-life technical supports. If warranty is expired, repair service only charges parts (if required).

In the event that a unit must be returned for service, before returning the unit, please be advised:

- a) Warranty mark pasted on the housing of unit must be in good conditions.
- b) A clear and readable material describes model number, serial number and troubles should be offered.
- c) Please pack the unit in its original container. If the original container is no longer available, please pack the unit in at least 3 inches of shock absorbing material.
- d) Returned unit(s) must be prepaid and insured. COD and freight collect can not be acceptable.

**Note:** We do not assume responsibility for damage caused by improper packing of returned unit(s).

The following situation is not covered by warranty:

- a) The unit fails to perform because of operators' faults.
- b) Warranty mark is modified, damaged and/or removed.
- c) Damage caused by Force Majeure.
- d) The unit has been unauthorized alteration and/or repaired.
- e) Other troubles caused by operators' faults.



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### USA

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Cheyenne, WY 82001, USA  
Phone: +1 203 350 9822

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