



Quick Reference Guide

**Revision D** 



# **ACT AT5226 Direct Modulation Optical Transmitter**

# **Quick Reference Guide**

ACT Document Number: ACT AT5226 Direct Modulation Optical Transmitter

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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.

For more information, contact ACT: <a href="mailto:support@ascentcomtec.com">support@ascentcomtec.com</a>



### **Revision History**

Revision	Date	Reason for Change	
Α	04/12/2016	Initial release	
В	04/04/2017	Updated specifications	
С	04/11/2017	Added WEB manager	
D	02/17/2019	Updated formatting	



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# **1** Precautions



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.

### **General Reminders and Warnings**

Review these reminders and warnings before you inspect and clean your fiber-optic connections.

### Reminders



- Always turn off any laser sources before you inspect fiber connectors, optical components, or bulkheads.
- Always make sure that the cable is disconnected at both ends and that the card or pluggable receiver is removed from the chassis.
- Always wear the appropriate safety glasses when required in your area. Be sure that any laser safety glasses meet federal and state regulations and are matched to the lasers used within your environment.
- Always inspect the connectors or adapters before you clean.
- Always inspect and clean the connectors before you make a connection.
- Always use the connector housing to plug or unplug a fiber.



- Always keep a protective cap on unplugged fiber connectors.
- Always store unused protective caps in a resealable container in order to prevent the possibility of the transfer of dust to the fiber. Locate the containers near the connectors for easy access.
- Always discard used tissues and swabs properly.

### Warnings



- Never use alcohol or wet cleaning without a way to ensure that it does not leave residue on the endface. It can cause damage to the equipment.
- Never look into a fiber while the system lasers are on.
- Never clean bulkheads or receptacle devices without a way to inspect them.
- Never touch products without being properly grounded.
- Never use unfiltered handheld magnifiers or focusing optics to inspect fiber connectors.
- Never connect a fiber to a fiberscope while the system lasers are on.
- Never touch the end face of the fiber connectors.
- Never twist or pull forcefully on the fiber cable.
- Never reuse any tissue, swab, or cleaning cassette reel.
- Never touch the clean area of a tissue, swab, or cleaning fabric.
- Never touch any portion of a tissue or swab where alcohol was applied.
- Never touch the dispensing tip of an alcohol bottle.
- Never use alcohol around an open flame or spark; alcohol is very flammable.

# 2 Introduction

### 2.1 Overview

ACT AT5226 1RU 2.6GHz 1550nm Direct-Modulated (DMOD) Laser Transmitter offers a flexible and scalable optical transmission for high quality CATV & SAT-IF video in short, medium distance FTTH networks. It was designed with high linearity and low chirp DFB laser, with built-in pre-distortion compensation and AGC close loop control for improved performance.

AT5226 DMOD series transmitters are capable of delivering analog and digital video transmission up to 15km, all Digital loading up to 45km, with intuitive front panel LCD display to make operator's daily operation easier. The optical transmitter is packaged in a selfcontained 19" sub-rack of 1 RU with universal mains power supply and SNMP management.

The optical output power level can be ordered at either 6 dBm, 8dBm or 10dBm with single or dual power supply for redundancy. Combined with ACT AT5200 Multiport EDFA optical amplifier, AT5226 DMOD transmitter provides the most cost effective solution for short, medium IPTV, VOD and traditional CATV & SAT-IF services in HFC & FTTX networks.



### 2.2 Features

- Suitable for short, medium distance FTTH applications with CATV & SAT-IF overlay
- Wide band: 45 to 862MHz & 950 to 2600MHz
- Optimized models for analog and digital signal up to 15km
- High linearity and low chirp DFB laser
- Built-in pre-distortion compensation and AGC closed loop control,
- Dual redundant hot-swappable AC or DC power supplies
- High reliability with laser APC control circuit
- Front-panel LCD for local monitoring of transmitter status
- Local or remote monitoring and configuration
- SNMP/HTTP monitoring, management and control

## 2.3 Specifications

AT5226 DMOD 1550 nm 2.6 GHz Direct-Modulated (DMOD) Laser Transmitter - 19" 1RU

Items	Min	Typical	Max	Unit	Remarks
<b>Optical Parameters</b>					
Working Wavelength	1540	1550	1563	nm	
	1300	1310	1320	nm	Optional
Output Power	4		10	mW	1550 nm
	8		30	mW	1310 nm
Optical Isolation	30			dB	
Optical Return Loss	50			dB	
Fiber Connector	F	C/APC, SC/A	PC		Chosen by customer
CATV RF Parameters					
Bandwidth	47		862	MHz	
Input Range	75		85	dBµV	
Flatness	-0.75		+0.75	dB	47 MHz to 862 MHz
C/N	51			dB	Test standard GT/T 184-2002
С/СТВ	63			dB	Test standard GT/T 184-2002
C/CSO	58			dB	Test standard GT/T 184-2002
Input Return Loss	16			dB	
RF Port		F-			
		Imperial			
Input Impedance		75		Ω	
SAT-IF Parameters					
Working Bandwidth	5		2600	MHz	
Input Range	-25		-5	dBm	
Flatness	-1		+1	dB	950 MHz to 2600 MHz
Input Return Loss	10			dB	
RF Port		Imperial			
Input Impedance		75		Ω	
Tuner Feeding Voltage		0/13/18		V	
Tuner Feeding Current			300	mA	
General Parameters					
Power Supply		- 250 V <sub>AC</sub> (50	Hz)	V	
	B: 48 V <sub>DC</sub>				
Power Consumption			30	W	
Working Temp	0		50	°C	
Max Working Humidity	5		95	%	
Storage Temp Range	-40		60	°C	
Dimensions	483 × 395			mm	1U 19"
Net Weight		5		kg	



## 2.4 Models and Options

AT5226 DMOD Series	Description
AT-5226-DMOD-00-06-M-SC-AC	AT5226 DMOD TX 1RU 1550+/-10nm, 6dBm output, 2600MHz, analog
	channels up to 10km , SC/APC, Single AC Power
AT-5226-DMOD-00-08-M-SC-AC	AT5226 DMOD TX 1RU 1550+/-10nm, 8dBm output, 2600MHz, analog
	channels up to 10km , SC/APC, Single AC Power
AT-5226-DMOD-00-10-M-SC-AC	AT5226 DMOD TX 1RU 1550+/-10nm, 10dBm output, 2600MHz,
	analog channels up to 10km , SC/APC, Single AC Power
AT-5226-DMOD-21-08-M-SC-AC	AT5226 DMOD TX 1RU ITU Ch 21, 8dBm output, 2600MHz, analog
	channels up to 10km , SC/APC, Single AC Power
AT-5226-DMOD-21-10-M-SC-AC	AT5226 DMOD TX 1RU ITU Ch 21, 10dBm output, 2600MHz, analog
	channels up to 10km , SC/APC, Single AC Power



Contact ACT for additional product variations on output power, 1 GHz, specific ITU channels, optical connectors etc.



# **3** Installation

### **3.1 Equipment Inventory**

On receiving your new AT5226-DMOD, you should carefully unpack and examine the contents for loss or damage that may have occurred during shipping. Refer to warranty registration if loss or damage has occurred. The AT5226-DMOD should consist of the following:

Qty	Description

- 1 AT5226-DMOD2 Unit
- 1 Key for switching laser ON / OFF
- 1 Test Report
- 1 Power supply cord
- 1 Optional Product User Manual (Optional)

### 3.2 Packaging and Transportation

Keep all AT5226-DMOD packing boxes and packaging for future transport.

Use only the original AT5226-DMOD packaging when transporting. This packaging has been specifically designed to protect the equipment.

### 3.3 Power and Cooling Requirements

The AT5226-DMOD requires a mains input of 90  $V_{AC}$  to 265  $V_{AC}$  at 50 to 60 Hz. The unit will automatically adjust the power conversion for inputs within these ranges, with no switch setting or other user intervention. Power consumption of the unit is 50 watts maximum.

The transmitter is designed to operate with an ambient temperature of 0  $^{\circ}$ C to 50  $^{\circ}$ C with humidity up to 95 %. Free ambient air should be maintained around all sides of the unit. Care should be taken to ensure that the air flow around the unit is unrestricted.

The AT5226-DMOD should have a minimum ventilation clearance of 1 RU above and below the transmitter.



DO NOT expose AT5226-DMOD to conditions which would permit condensation to form on the inside of the transmitter. DO NOT operate AT5226-DMOD outdoors.



### 3.4 Installation and Adjustment



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.

The following steps explain how the AT5226-DMOD is to be installed.

- 1. Unpack the transmitter and inspect the unit as stated in **Section 3.1**.
- 2. Locate the transmitter in a 19" cabinet ensuring adequate ventilation and space for accessing the rear ports and front-panel keypad.
- Before connecting AC power to the unit, make sure that the LASER ON/OFF key is switched OFF (front panel).
- 4. Use the supplied power cord to apply mains power to the transmitter.
- 5. Switch the AC power ON (switch located on the rear panel).

The ALARM LED will light red.

The LCD will light and display "Model: AT5226-DMOD" and "KEY OFF" on start up.

6. Switch on the laser using the key switch.

Front panel shows "KEY ON...", Laser status LCD turns green from red, the unit enters selfchecking, after checking it enters working status, display "Descriptor"



Allow 15 minutes for the transmitter to reach its stable operating temperature. Do not connect the optical ports to the network or start aligning your system until then.

- Before connecting an RF signal, check that the power input level is within the acceptable range. Refer to Section 2 for details.
- 8. Connect a matrix generator or head-end RF signal.



The default control mode is AGC. The modulation control mode displayed in the main menu is RF Mode = AGC.

9. Connect a fiber patch-cord from optical port **OPT. OUT 1** to an optical power meter and verify the LCD reading matches your power meter reading.

When the ALARM LED shows green, the transmitter is ready for full operation.

# 3.5 Front Panel Operation



Port	ltem	Description
1	Mounting Points	Holes for securing unit to rack3
2	LASER ON/OFF	Key switch for laser activation
3	LASER	Laser indicator
		GREEN – Output power is normal
		RED – Abnormal status
4	RF	RF indicator
		GREEN – Normal operation
		RED – RF input is too low or too high
5	Status	Status indicator
		GREEN – Status is normal
		RED – Status temperature is too low or too high
6, 7	PWR1/PWR2	Power 1 / Power 2 indicators
	(Optional)	GREEN – Two-way switch power supply is working
		YELLOW – One-way power supply is working
		RED – Abnormal status
8	VFD/LED	VFD/LED display for satellite optical transmitter parameters such
		as model number and operation status
9, 10	KEYPAD	Keypad used to scroll through menu items on transmitter display
11	ENT	Enter button
12	RF TEST	Input level test (-20 dBm)

### 3.6 Rear Panel Operation



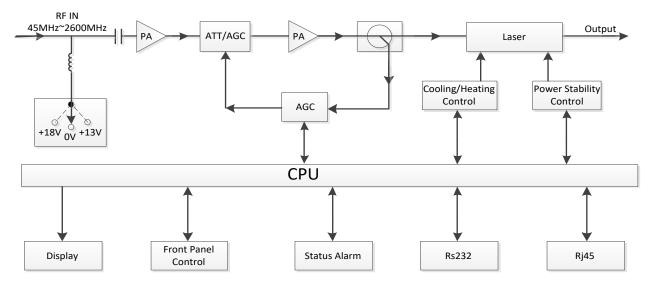
Port	Item	Description
1	FAN	Intelligent fan, begins to run when the chassis temperature
		reaches 32 °C to 35 °C (set by
2	IF/RF IN	IF/RF signal input
3	Power Supply Switch	UP – 12 V <sub>DC</sub>
		MIDDLE – Off
		DOWN – 18 V <sub>DC</sub>
4	CONSOLE	Console for computer network management
5	ETHERNET	Ethernet port, compliant with CNMP standard interface
6, 7	PS2/PS1	Power supply 2 outlet



Product appearance may vary with model options.

# **4** Technical Description

### 4.1 Overview





### 4.2 Physical Description

The unit is housed in a 19" rack, 1 RU height. Status indicators and control keys are located on the front panel along with an RF monitor port. The front panel provides an LCD display for comprehensive status information and user interface. The rear panel contains the optical interconnects, power, and data interface connectors.

The RF test port on the front panel is -20 dB from the modulating signal level. This is just after the internal AGC functional block. This signal is constant when the AGC circuit is functioning normally. Refer to the specification for typical levels. The output impedance of this port is 75  $\Omega$ , with an F-type connector.

The rear panel also contains the two optical ports, which are typically SC/APC bulkhead connectors.

The power interface, is a standard 3-prong line cord, with hot, neutral, and chassis ground. The metal chassis of the transmitter is tied to ground.

### 4.3 AGC Operation

The AT5226-DMOD will be in AGC mode (Automatic Gain Control) when first powered on. To change it to MGC mode (Manual Gain Control), refer to **Section 5.3**.

### 4.4 ITU Frequency Grid

AT5226-DMOD Wavelength Options: The following table contains the ITU frequency plan with corresponding wavelengths available to the AT5226-DMOD.

Channel	ITU Freq. (THz)	Avail. ITU Wavelengths (nm)	Channel	ITU Freq. (THz)	Avail. ITU Wavelengths (nm)
Order Code			Order Code		
60	196.0	1529.55	40	194.0	1545.32
59	195.9	1530.33	39	193.9	1546.12
58	195.8	1531.12	38	193.8	1546.92
57	195.7	1531.90	37	193.7	1547.72
56	195.6	1532.68	36	193.6	1548.51
55	195.5	1533.47	35	193.5	1549.32
54	195.4	1534.25	34	193.4	1550.12
53	195.3	1535.04	33	193.3	1550.92
52	195.2	1535.82	32	193.2	1551.72
51	195.1	1536.61	31	193.1	1552.52
50	195.0	1537.40	30	193.0	1553.33
49	194.9	1538.19	29	192.9	1554.13
48	194.8	1538.98	28	192.8	1554.94
47	194.7	1539.77	27	192.7	1555.75



46	194.6	1540.56	26	192.6	1556.55
45	194.5	1541.35	25	192.5	1557.36
44	194.4	1542.14	24	192.4	1558.17
43	194.3	1542.94	23	192.3	1558.98
42	194.2	1543.73	22	192.2	1559.79
41	194.1	1544.53	21	192.1	1560.61



# **5** Software Description – Operation

### 5.1 Web Management

The user can use web browser to check the working condition and basic parameters of the amplifier, it supports IE, Chrome, Firefox, Opera and other main web browser. The following example are based on Opera browser.

1. Find the IP add in the machine, for example 192.168.1.XXX, set the IP add of the PC in the same range as following:

Step 1: Open local Area Connection setting:

Control Panel +	Network and Internet   Network and Sharing Center	← 4y Search Control Pa	nel 🔎
Control Panel Home Change adapter settings Change advanced sharing settings	View your basic network information and set	t up connections	( <u>e:</u> ) ()
See also HomeGroup Internet Options Windows Firewall	<ul> <li>Set up a new connection or network</li> <li>Set up a wireless, broadband, dial-up, ad hoc, or</li> <li>Connect to a network</li> <li>Connect or reconnect to a wireless, wired, dial-up</li> <li>Choose homegroup and sharing options Access files and printers located on other netwo</li> <li>Troubleshoot problems Diagnose and repair network problems, or get tr</li> </ul>	rk computers, or change sharing settings.	

#### Step 2: Set Properties

General		
Connection		
IPv4 Connectivity	:	Internet
IPv6 Connectivity	:	No Internet access
Media State:		Enabled
Duration:		00:20:39
Speed:		100.0 Mbps
Details		
Activity		
	Sent —	Received —
Bytes:	4,344,304	100,897,055
Properties	Disable	Diagnose
		Close



Step 3: Set the PC IP address in the same range with device IP address. For example the device IP address is 192.168.1.122, pls set PC IP address to 192.168.1.X (X different from 122).

Local Area Connection Properties	x
Networking	
Connect using:	
Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6	
Configure	
This connection uses the following items:	
Client for Microsoft Networks	
QoS Packet Scheduler	
File and Printer Sharing for Microsoft Networks	
Internet Protocol Version 6 (TCP/IPv6)      Internet Protocol Version 4 (TCP/IPv4)	
Internet Protocol Version 4 (TCP/IPv4)     Internet Protocol Version 4 (TCP/IPv4)	
Link-Layer Topology Discovery Responder	
Install Uninstall Properties	51
Transmission Control Protocol/Internet Protocol. The default	
wide area network protocol that provides communication	
across diverse interconnected networks.	
	- 1
OK Canc	el

General								
You can get IP settings a this capability. Otherwise for the appropriate IP se	e, you need to							
🔘 Obtain an IP addres	s automatically	1						
💿 Use the following IF	address:							
IP address:		192.	168 .	1		5		
Subnet mask:		255 .	255	255	89.7 <b>9</b>	D		
Default gateway:		192 ,	168 .	1	•3	1		
💮 Obtain DNS server	address autom	atically						
OUse the following D	NS server addr	esses:						
Preferred DNS server:		192 .	168 .	1		1		
Alternate DNS server:		8	3	δ	8			
🔲 Validate settings u	oon exit				Ac	lvance	ed	
		104			20	144		



2. Open web browser, input the IP add and login in. The IP factory setting is 192.168.1.122.

User Name: admin

Password: ascent

Password: ••••••

新标签页	× +											×
e e 192.168.	.122		▼ → Q /	搜索		☆ 🖻	+	Â	9	ø	<u>19</u> 2 -	≡
Authentication	Required		1		-				-	-		23
?	http://192.168.1.122 Manager"	is requesti	ng your user	name an	d passwo	ord. Th	e site s	says: "	Embe	eddeo	WEB	
User Name:	admin											

<ol><li>The web management consist of five submenus. Items guide on the left, clicl</li></ol>	k to enter.
---	-------------

Cancel

OK



Device Status
Device Settings
Alarm Status
Alarm Properties
Network Settings
Change Password
Reset Settings

### 5.2 Device Status Submenu

ASCEN1	- X-				4.0		
Communication Tech	nology WEB Manage	r	0 49 MIL 91	Hite, Im.			
Device Settings	Device Model	AT-52-XMOD2-00-07-SC	1				
	Serial Number	171106078184	1				
Alarm Status	Version	5.0.4					
Alarm Properties	Unit Temprature	21.6	*C				
Network Settings	Input RF Level	50.0	dBuV				
Change Password	Output Power1	9.5	dBm				
Reset Settings	Output Power2	9.2	dBm				
	Wavelength	1553.73	nm				
	Laser BIAS	145	mA				
	Laser TEMP	25.0	°C				
	Laser TEC	0.08	A				
	DC Power +24V	24.1	V				
	Power Supply 1	Normal					
	Power Supply 2	Normal					



### **5.3 Device Settings Submenu**

**OMI mode:** switch AGC/MGC statuses.

**OMI Value:** -3 dB to +3 dB adjustable, factory setting is 0 dB.

SBS: 13 dB to 19 dB continuously adjust, 0.1 dBm step 0.1 dB.

اب در ی ÷ ک ÷ ال	ttp://192.168.1.122/ ● 阿և导航 □ 游戏中心 □ 小	说大全 🖓 愛海宝 🖓 凝划算		∮☆	• S KIBTRA	文件 蒼着 收藤 叫门 Q			
★ Wark U MgHm52bb ▲ U MgHm52bb ▲ U MgHm52bb ▲ U MgHm52bb		WEB Manage	Laser ON • AGC • 0.0 16.5						
			Querraint	10 0044 0047 0 1 0					
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## 5.4 Alarm Status

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C C Embedded WEB Manag		DUE D'RUGE D'RUGH					
		gy WEB Ma	nager 🔥		9.49		
	Device Settings	Index	Parameter Name	Alarm Status			
	-	1	Parameter Name Power Supply 1	Nominal			
	Alarm Status	2	Power Supply 2	Nominal			
	Alarm Properties	3	Box Temp	Nominal			
	Network Settings	4	Input RF Level	LOLO			
	Change Password	5	Laser Current	Nominal			
		6	Laser Outpower	Nominal			
	Reset Settings	7	Laser Temp	Nominal			
		8	Laser TEC	Nominal			
		9	Laser Outpower1	Nominal			
		10	Laser Outpower2	Nominal			
		11	Input RF Status	DiscreteMajor			
		12	DC +24V	Nominal			
				11 2017 1		in the st	
			Copyright © 201	11-2017 Ascent Communic	cation Technology L		B @0 € 1005



## 5.5 Alarm Properties

	* w	EB Manager			1.81		10 (1			
Device Status	Alarm Prop			Q	-					
Device Settings	Index	Parameter Name	HIHI	HI	LO	LOLO	Deadband	Action		
Alarm Status	1	Box Temp ('C)	☑ 85		Ø 0	<ul> <li>✓ -5</li> </ul>	2	Set		
Alarm Properties	2	Input RF Level (dBuV)	☑ 120.0	<ul> <li>110.0</li> </ul>	€ 60.0	50.0	1.0	Set		
Network Settings	3	Laser Current (mA)	✓ 1000		☑ 100	€ 50	5	Set		
Change Password	4	Laser Outpower (mW)	✓ 20	✓ 18	۷ 2	. 1	1	Set		
Reset Settings	5	Laser Temp ('C)		✓ 32	✓ 18		1	Set		
······	6	Laser TEC (mA)	☑ 3000	2000	✓ -200	0 🕑 -3000	10	Set		
	7	Laser Outpower1 (dBm)	✓ 15.0	✓ 14.0	<ul> <li>1.0</li> </ul>	0.5	0.1	Set		
	8	Laser Outpower2 (dBm)	✓ 15.0	✓ 14.0	<ul> <li>1.0</li> </ul>	0.5	0.1	Set		
	9	DC +24V (V)	28.0	27.0	21.0	20.0	0.2	Set		
	Index	Paran	neter Name			Contr	ol	Action	1	
	1	Powe	er Supply 1			EnableMajor	•	Set		
	2	Powe	er Supply 2			EnableMajor	۲	Set		
	3	Input	RF Status			EnableMajor	•	Set		

## 5.6 Network Settings:

### Set MAC Address, IP Address, etc.

	WEB Manager	
Device Status	- Network Settings	
Device Settings	Device MAC: D8 : 29 : 16 : 57 : 04 : 2F	
Alarm Status	Update Identifier: OTX138SG01	
Alarm Properties	Static IP Address: 192, 168, 1, 122	
	Subnet Masic 255 , 255 , 255 , 0	
Network Settings	Default Gateway: 192, 168, 1, 1	
Change Password	Trap Address 1: 255 , 255 , 255 , 255	
Reset Settings	Trap Address 2: 0, 0, 0, 0	
	Trap Address 3: 0, 0, 0, 0	
	Trap Address 4: 0, 0, 0, 0	
	Trap Address 5: 0, 0, 0, 0	
	Trap Address 6: 0, 0, 0, 0	
	Trap Address 7: 0,0,0	
	Trap Address 8: 0 , 0 , 0 , 0	
	Read Community, public	
	Write Community: public	
	Trap Community, public	
	SNMP Version: V1 T	



## 5.7 Change Password

							>>	文件 查	看 收藏	工具 帮	物で	- 8	×
(	168.1.122/					4	⑤ 酒店为先顶部		Q	-	- 🖸	15 0	<b>1</b>
📃 👷 🦕 收藏 🗍 杭州市企业 🕀 网址导航	癿 □ 游戏中心 □ 小说大全 □ 愛淘宝	🕞 栗划算											
	tus — Change Passw dings us berties ettings assword	B Manager	Submit	Reset									
			Сор	oyright © 20	11-2017 Asce	nt Commu	inication Techn	ology Lin	nited				38
▷ 完成												90 Q	
🔠 📕 🖬 🖬 田厂检验记录表 ( 🔊 Enbedded	1 WEB Mana   🦉 阿普5 bop - 田田						搜索桌面	Q	30	80	3	۲ 😪	9:47

### **5.8 Reset Settings**

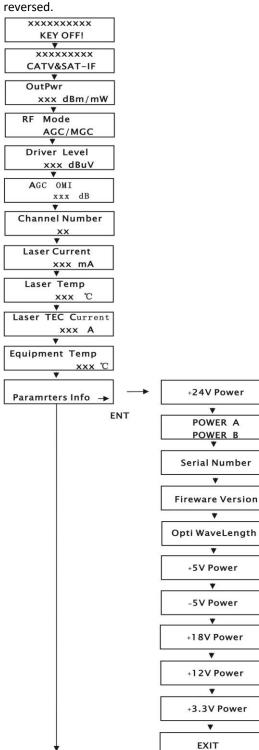
			》 文件	查看 收藏	工具報	助口	- 8	×
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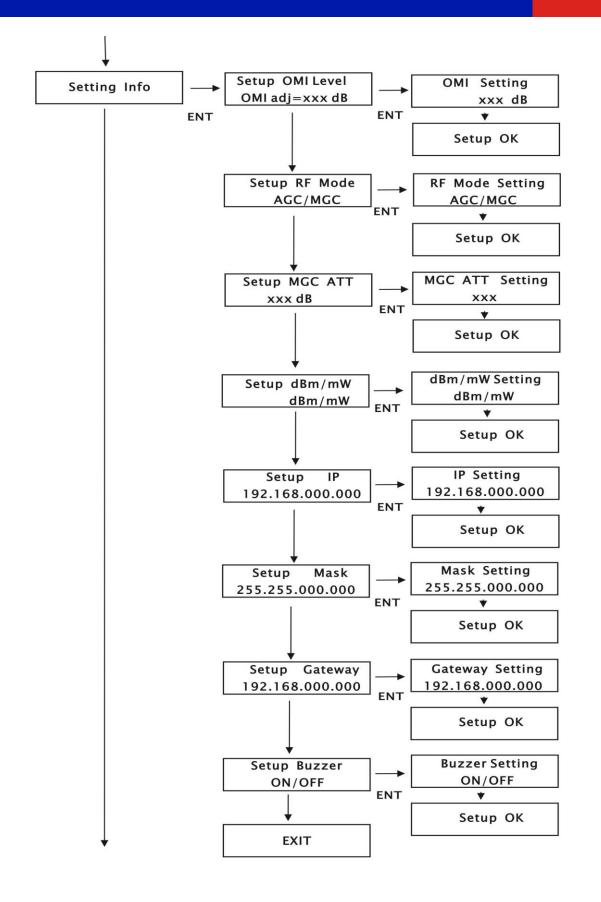


# 6 Setup Menu

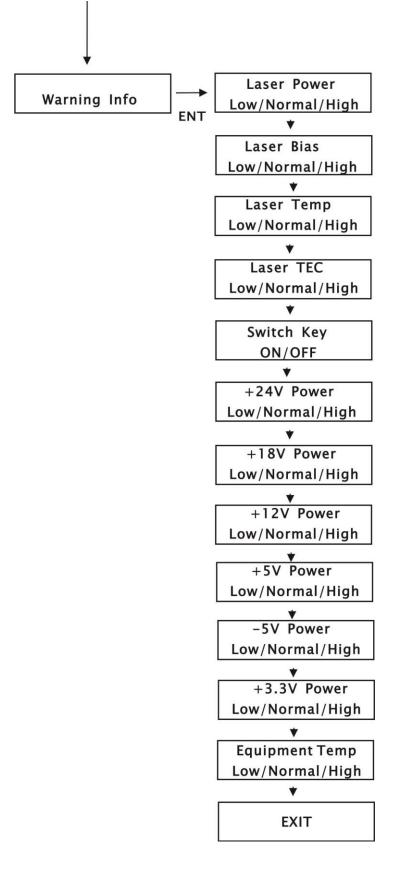
The following menu shows all using the down arrow button; the up arrow button can be













# 7 Troubleshooting

### 7.1 Fiber Optic Maintenance

Any time the fiber leads to the amplifier are disconnected, there is the potential for contamination of the ends of the fiber connectors. Dirt or other contaminants on these components can reduce the amplifier's performance and can result in permanent damage to the device. It is recommended that the fiber connectors be cleaned prior to connection, or reconnection, to the system.

### 7.2 Troubleshooting Conditions

No lights ON	Is the power on? Is the fuse OK?
In LED displays the right optical power, but not enough by test meter	Check optical meter setting Check input optical power within the range ( -3 to 10dB) Check loss in the test pigtail Check if there is dust in the connectors
Pout fail ON	Check the optical output power and pump parameters on the LCD. Contact ACT Technical Support.

# **ASCENT** Communication Technology



### Ascent Communication Technology Ltd

### AUSTRALIA

140 William Street, Melbourne Victoria 3000, AUSTRALIA Phone: +61-3-8691 2902

### CHINA

Unit 1933, 600 Luban Road 200023, Shanghai CHINA Phone: +86-21-60232616

### EUROPE

Pfarrer-Bensheimer-Strasse 7a 55129 Mainz, GERMANY Phone: +49 (0) 6136 926 3246

WEB: www.ascentcomtec.com

### HONG KONG SAR

Unit 9, 12<sup>th</sup> Floor, Wing Tuck Commercial Centre 177 Wing Lok Street, Sheung Wan, HONG KONG Phone: +852-2851 4722

### USA

2710 Thomes Ave, Cheyenne WY 82001, USA Phone: +1-203 816 5188

### VIETNAM

15 /F TTC Building, Duy Tan Street, Cau Giay Dist. Hanoi, VIETNAM Phone: +84 243 795 5917

EMAIL: <a href="mailto:sales@ascentcomtec.com">sales@ascentcomtec.com</a>

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