1550nm High Power Internally Modulated Optical Transmitter

User's Manual

OLT1550 Series

I. Products Descriptions

1550nm high power internally modulated optical transmitter is mainly used for high power output and wide range coverage of secondary service area (sub front end). There is 1550nm Erbium-doped Fiber Amplifier (EDFA) added on the basis of internally modulated optical transmitter. It adopts high linear DFB laser, with built-in pre-distortion compensation and AGC, APC, ATC control, which greatly improves the comprehensive index of the system.

1550nm high power internally modulated optical transmitter is the core device for the construction of CATV secondary transmission networks. It is mainly used for value-added services such as TV image signal, digital TV signal, telephone signal and data (or compressed data) signal. It is a high-quality but low-cost solution to realize triple play and FTTx transmission systems.

Features

1.1 It adopts original low chirp and high linearity DFB laser as signal source.

1.2 It adopts world's top brand pump laser and erbium-doped fiber, which ensure stable operating of the device.

1.3 The perfect pre-distortion circuit ensures the perfect performance of CTB and CSO in high standard CNR value.

1.4 Fully automatic case temperature control, which ensure long operating life of the device.

1.5 Built -in dual standby power supply, hot plug and automatic switch supported.

1.6 The working 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 working parameters of the laser deviate from the allowed range set by the software, the system will alarm promptly.

1.7 Standard RJ45 interface provided, supporting remote network management of SNMP and WEB.

II. Installation

2.1 Preparation before Installation

2.1.1 Please examine the machine to see if there is distinct.

2.1.2 Please examine if the accessories is complete and the quality cards is here. If not, please contact sales or dealer.

2.2 Installation

2.2.1 Please keep a space about 4.5cm between machines for ventilation.

2.2.2 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.

2.2.3 Please make sure the key is turned to OFF before the power supply connected.

2.2.4 Please keep the interface of the fiber clean before connecting the fiber. The connector could choose FC/APC or SC/APC.

III. Operation

3.1 Diagram

3. 2 Main Technical Parameters

Catagory	ltomo	l lmit		Index		Demerica
Category	items	Unit	Min.	Typ.	Max.	Remarks
	Laser Wavelength	nm	1528.77		1563.86	Compatible with ITU wavelength
	Max Output Power	dBm	13		26	1dBm interval
	No. of Output Port	No.	1		8	
	Output Uniformity				+0.7	
	Laser Linewidth	MHz		0.65	1.0	
Ontical	SMSR	dB	40			SMSR
Index	XP	dB	20			XP
much	RIN	dB/Hz			-160	RIN(20~1002MHz)
	Optical Return Loss (dB)	dB	50			
	PDL	dB			0.3	
	PDG	dB			0.4	
	PMD	Ps			0.3	
	Remnant	dDm			20	
	Pump Power	ubiii			-30	
	Fiber				•	
	Connector					FU/APU, LU/APU
	Operating Bandwidth	MHz	47		1002	
	Flatness	dB	-0.75		+0.75	47~1002MHz
RF Index	Return Loss	dB	16			47~1002MHz
	Input Impedance	Ω		75		
	RF Connector		F Me	etric/Imp	erial	Specified by user
Link	No. of Test		PA	L-D/590	СН	NTSC/80CH
Index		٩D	40.0			
		dD dD	49.0			TX to RX
			60.0			Rx -1dBm
	Network	uВ	00.0			
	Management Interface		SNMP、	WEB S	upported	
	Power Supply	V	90		265	AC
		v	-72		-36	DC
	Power Consumption	W			35	Dual Power Supply, 1+1 standby
General Index	Operating Temp	°C	-5		+65	Auto case temp control
	Storage Temp	°C	-40		+85	
	Operating Relative Humility	%	5		95	
	Dimension	mm	44	3×483×	44	D、W、H
	Weight	Kg		4.8		

3.3 Front Panel Instructions

S/N	Identification	Name	Remarks
1	LCD	LCD Display	To display the parameters of the device
2	Power	Power Supply	LED Green, Device working(single,dual power supply)
			LED Green, Operating temperature working
3	Heat Alarm	Heat Alarm	LED Red, Operating temperature is out of the normal range
			LED Green, Device working
4 Sta	Status	Device Status	LED Red, Device alarming or faulty
			LED Green, Input within requested range
5	Laser In	Fiber Input	LED Red, no input or out of the requested range
			LED Green, Fiber output is within normal range
6	Laser Out	Fiber Output	LED Off, Fiber output is out of normal range
7			LED Off, Device working
1	Monitor	Monitor	LED Red, Device not working
8	SELECT	Buttons	Start menu page turning

3.4 Rear panel Instructions

S/N	Identification	Items	Remarks
1	RF	RF Input	RF Input
2	OUT	Optical Output	Optical Output
3	RS232	RS232 Port	Local programming
4	RS485	RS485 Port	Local network management
5	RJ45	RJ45 Port	Remote SNMP and WEB supported
6		Grounding Port	For Grounding
7	Power1	Power Socket1	Hot plug in/out supported
8	Power2	Power Socket 2	Hot plug in /out supported

3.5 Front Panel Operation

Press the to display the following menus in turn, and press the to reverse the cycle

Input Power

Model No. and Output Power

IV. Products Series

Total Output Power			Output Power per
dBm	mW	No. of Output Port	Port
13	20	1	13.0
14	25	1	14.0
15	32	1	15.0
16	40	1	16.0
17	50	1	17.0
18	63	1	18.0
19	80	1	19.0
20	100	1	20.0
24	405	1	21.0
21	125	2	17.5
22	100	1	22.0
22	160	2	18.5
		1	23.0
23	22 160 23 200 24 250	2	19.5
	050	1	24.0
24	250	2	20.5
		1	25.0
25	320	2	21.5
		4	18.0
		1	26.0
26	400	2	22.5
		4	19.0
		1	27.0
27	500	2	23.5
		4	20.0

V. Notes

5.1 Static-sensitive pump laser is applied in the High Power Optical Transmitter, please note that electrostatic protection should be applied in the storage of the High Power Optical Transmitter and it should not be stored with corrosive material, and the storage temperature should be between - 40 $^{\circ}$ C and + 85 $^{\circ}$ C.

5.2 As the output power of High Power Optical Transmitter is high, please do not turn on the power supply before the High Power Optical Transmitter is connected to the system or the output ports are not equipped with protection sleeves. Please do not to plug in/out the patch cord when the device is working, otherwise it may burn the output interface, resulting the decrease of the output power.

5.3 Please don't now attempt to look into the optical connectors when power applied, eye damage may result.

5.4 Please don't block the cooling holes of the device and keep it in good ventilation

5.5 Please use anhydrous industrial alcohol instead of medical alcohol to wash the fiber connector if necessary after the power supply of the device turned off.

5.6 For High Power Optical Transmitter, it is easy to burn the fiber output interface and decrease the output power, so the advised best value on each port is lower than 19dBm.

5.7 Please don't test the High Power Optical Transmitter repeatedly, otherwise the fiber connector interface may be hurt and the output power decreased.

VI. Solution to some ordinary problems

S/N	Fault Phenomenon	Faulty Reason	Solution	Remarks
1	STATUS Red LASER IN Red LASER OUT Red	No input or input too low	Adjust the value of input power	
		Fiber interface hurt caused by wrong operation such as plug in/out patch cord when the power supply is on, it will cause the output lower than LCD display	Replace the fiber connector	The advised optical power per port ≤19dBm
2	Output power LCD displays normal value, but low value by power meter	Output interface of EDFA or patch cord is dirty.	Clean the output interface with industrial anhydrous alcohol or dust-free paper	
		Power meter error The wavelength deviation of input optical signal is far from 1550nm	Change power meter Adjust the wavelength of optical transmitter	Top brand power meter is advised
3	The optical power of the output end of the optical amplifier is normal, but the index of the user end is deteriorated	Optical power to fiber is high	Decrease the power to fiber under19dBm	

VII. Warranty Terms

OLT 1550 Series optical transmitters are covered by LIMITED WARRANTY AS NEGOTIATED, 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 that:

7.1 Warranty mark pasted on the housing of unit must be in good conditions.

7.2 A clear and readable material describes model number, serial number and troubles should be offered.

7.3 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.

7.4 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:

- 1. The unit fails to perform because of operators' faults.
- 2. Warranty mark is modified, damaged and/or removed.
- 3. Damage caused by Force Majeure.
- 4. The unit has been unauthorized alteration and/or repaired.
- 5. Other troubles caused by operators' faults.

VIII. Web Server

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.

8.1 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

	Open
Network	Map network drive Disconnect network drive
	Create shortcut Delete
	Properties

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



In the "Local Area Connection Status" menu, select "Properties", and then double-click "Internet Protocol Version 4 (TCP / IPv4)".

🕴 Local Area Connection Status	Local Area Connection Properties
General	Networking
Connection IPv4 Connectivity: No Internet acc IPv6 Connectivity: No network acc Media State: Ena Duration: 00:3 Speed: 100.0 N Details	Connect using: Consect using: Configure Died This connection uses the following items: Configure This connection uses the following items: Configure This connection uses the following items: Configure Con
Activity Sent Recei	ved Install Uninstall Properties
Bytes: 36,063 159,	089 Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
	Close OK Cancel

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.

You can get IP settings assigned	automatically if your network supports
this capability. Otherwise, you ne for the appropriate IP settings.	eed to ask your network administrator
Chitain an IP address autom	atically
• Use the following IP addres	s:
IF address:	192.168.0.10
Subnet mask:	255.255.255.0
Default gateway:	192.168.0.1
Obtain DNS server address Obtain DNS server	er addresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Advanced
	Advanceutti

8.2 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

O Menu III Speed Dial +	۹ 🗖		x
$\langle \rangle$ C \approx \oplus 192.168.0.22		Ó	ttt

The browser will pop up a login box

Authentication	Required
?	http://192.168.0.22 is requesting your username and password. The site says: "Embedded WEB Manager"
User Name:	
Password:	
	OK Cancel

In the pop-up login user name box, enter User Name: "admin" (Note: all lowercase letters), password: "123456", and then enter.

tus					
us	Device Model	TX-PT-2-V1			
erties.	Serial Number	20160316311			
ui and an	Unit Temprature	31	°C		
ettings	Input Power	-99.9	dBm		
assword	Output Power	-99.9	dBm		
ngs	DC Power +5V	5.0	V		
	DC Power -5V	-5.0	V		
Pump	BIAS		TEMP	TEC	
1	211 mA		25.0 °C	-0.97 A	
2	396 mA		25.0 °C	-0.96 A	
3					

8.3 The browser displays the device status page by default

Real Time Device Status Page

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



Page Navigation Bar

Alarm Status Alarm Properties Alarm Status Network Settings Change Password Reset Settings 6 Pump1 BIAS 6 Pump1 TEC 7 Pump2 TEC Nominal 7 Pump1 TEC 8 Pump1 Temp 9 Pump1 Temp 10 DC +5V 11 DC -5V	R.	SNMP Agent	WEB Manager		
Alarm StatusIndexParameter NameAlarm StatusAlarm Properties1Output optical powerNominalNetwork Settings2Input optical powerNominalChange Password4Pump1 BIASNominalReset Settings5Pump2 BIASNominal7Pump2 TECNominal8Pump1 TempNominal9Pump2 TempNominal10DC +6VNominal11DC -6VNominal	Device Status	Alarm Status			
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2Input optical powerNominalNetwork Settings3Box TempNominalChange Password4Pump1 BIASNominalReset Settings5Pump2 BIASNominal6Pump1 TECNominal7Pump2 TECNominal8Pump1 TempNominal9Pump2 TempNominal10DC +5VNominal11DC -5VNominal	Alarm Properties	1	Output optical power	Nominal	
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8Pump1 TempNominal9Pump2 TempNominal10DC +5VNominal11DC -5VNominal		7	Pump2 TEC	Nominal	
9Pump2 TempNominal10DC +5VNominal11DC -5VNominal		8	Pump1 Temp	Nominal	
10DC +5VNominal11DC -5VNominal		9	Pump2 Temp	Nominal	
11 DC -5V Nominal		10	DC +5V	Nominal	
		11	DC -5V	Nominal	
		10 11	DC -5V	Nominal Nominal	

Alarm Status Page

Index Parameter Name HIHI HI LO LOLO Deadband Action In Properties Vork Settings 1 Output optical power (dBm) 27.0 26.0 11.0 10.0 1.0 Set 2 Input optical power (dBm) 27.0 26.0 11.0 10.0 1.0 Set 3 Box Temp (°C) 285 70 0 2-5 2 Set 4 Pump1 BIAS (mA) 900 2800 100 280 10 Set 5 Pump2 BIAS (mA) 900 2800 100 280 10 Set 6 Pump1 TEC (A) 200 1.50 2-0.0 0.10 Set 7 Pump2 TEC (A) 200 1.50 2-0.0 0.10 Set 9 Pump2 Temp (°C) 35.0 30.0 20.0 15.0 1.0 Set 10 Dc +6V (V) 6.5 6.0 4.0 3.5 0.2 Set 11 Dc -5V (V) 6.5 6.0 4.0 3.5 0.2 Set	Index Parameter Name HIHI HI LO LOLO Deadband Action In Properties Vork Settings 1 Output optical power (dBm) 27.0 26.0 11.0 1.0 Set 2 Input optical power (dBm) 27.0 26.0 10.0 1.0 Set 3 Box Temp (°C) 285 7.0 0 2.5 2 Set 4 Pump1 BIAS (mA) 900 2800 100 280 10 Set 5 Pump2 BIAS (mA) 900 2800 100 280 10 Set 6 Pump1 TEC (A) 2.00 1.50 2.00 0.10 Set 7 Pump2 TEC (A) 2.00 2.150 2.00 0.10 Set 9 Pump1 Temp (°C) 2.350 2.00 2.150 1.00 Set 10 DC +5V (V) 2.65 2.60 4.00 3.5 0.2 Set 11 DC -5V (V) 6.5 <th>ce Status</th> <th>Alarm Pro</th> <th>perties</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	ce Status	Alarm Pro	perties						
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8 Pump1 Temp (°C) ☑ 35.0 ☑ 30.0 ☑ 20.0 ☑ 15.0 1.0 Set 9 Pump2 Temp (°C) ☑ 35.0 ☑ 30.0 ☑ 20.0 ☑ 15.0 1.0 Set 10 DC +5V (V) ☑ 6.5 ☑ 6.0 ☑ 4.0 ☑ 3.5 0.2 Set 11 DC -6V (V) ☑ -3.5 ☑ -4.0 ☑ -6.5 0.2 Set	8 Pump1 Temp (°C) Image: Constraint of the state		7	Pump2 TEC (A)	2.00	1.50	-1.50	-2.00	0.10	Set
9 Pump2 Temp (C) Image: 35.0 Image: 30.0 Image: 20.0 Image: 15.0 Image: 10.0 Image: 884 10 DC +5V (V) Image: 65.5 Image: 60.0 Image: 40.0 Image: 60.0 Image: 60.0	9 Pump2 Temp (°c) Image: 35.0 Image: 30.0 Image: 20.0 Image: 15.0 Image: 10.0 Image: 85.0		8	Pump1 Temp (`C)	35.0	30.0	20.0	15.0	1.0	Set
10 DC +6V (V) ✓ 6.5 ✓ 6.0 ✓ 4.0 ✓ 3.5 0.2 Set 11 DC -6V (V) ✓ -3.5 ✓ -4.0 ✓ -6.5 0.2 Set	10 DC +6V (V) Image: 6.5 Image: 6.6		9	Pump2 Temp (`C)	35.0	30.0	20.0	15.0	1.0	Set
11 DC -5V (V) ☑ -3.5 ☑ -4.0 ☑ -6.0 ☑ -6.5 0.2 Set	11 DC -5V (V) Image: Parameter Name Image: Parameter Name Image: Control Action		10	DC +5V (V)	6.5	6.0	4.0	3.5	0.2	Set
	Index Parameter Name Control Action		11	DC -5V (V)	-3.5	-4.0	-6.0	-6.5	0.2	Set
Index Parameter Name Control Action			Index	Parameter Name					Control	Action



The second se	SNMP Agent WEB	Manager
Device Status Alarm Status Alarm Properties Network Settings Change Password Reset Settings	Network Settings Device MAC: Update Identifier. Static IP Address: Subnet Mask: Default Gateway: Trap Address 1: Trap Address 2: Trap Address 3: Trap Address 3: Trap Address 4: Trap Address 5: Trap Address 6: Trap Address 6: Trap Address 7: Trap Address 8: Read Community: Write Community: Trap Community: SNIMP Version:	00; B9; A0; 12; 40; 96 OA138TEO7 192, 168, 0, 22 255, 255, 255, 0 192, 168, 1, 1 255, 255, 255, 255 0, 0, 0, 0 0, 0, 0, 0 public public V1 ~
		Copyright © 2015, All rights reserved.

Network Setting Page

The second se	SNMP Agent WEB Manager	
Device Status Alarm Status Alarm Properties Network Settings Change Password Reset Settings	Change Password Username: Password: New Username: New Password: Confirm Password: Submit Reset	
	Copyright © 2015, All rights reserve	d.

Page to Change User Name and Password



Restore Page