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Chapter 1 Introduction of product

1.1 Summary

TCL A1100E ADSL Modem is a perfect modem with router function and an Ethernet port. It can provide you with quick Internet surfing service. This model suits for not only individual users, but also multi-users in offices of small or middle scale.

This model adopts multimode ADSL technology to improve the transimission rate (Max download rate: 24Mbps) on a common copper wire.support the newest multimode ADSL/ADSL2+ technology, The rate is 100 times than normal 56K analog modem. Moreover, it can contact to your computer and intranet by a 10/100M ethernet port.

1.2 Features and compatability

- Several ADSL technology compatable completely, including G.dmt, G.lite and ANSI T1.413 issue 2, and the like. In accordance with most terminal contact standards.
- Support the newest ADSL/ADSL2+ technology, support AnnexA、AnnexL、AnnexM
- To support full-rate transmission, Max. Download/upload rate: 24Mbps/2Mbps
- To support several communication protocols, bridge mode and Router mode. To support RFC1483 Bridge, RFC 1483 Router, IP over ATM (RFC 1577), PPPoA (RFC2364), PPPoE (RFC 2516).
- Factory default: 7 groups of VPI/VCI
- Net protect function: NAT, IP filtering and firewall.
- To offer net setting by DHCP, support two intranet subnets.
- MDI, MDI-X auto compatable for Ethernet ports
- Perfect and friend WEB setting interface
- To support RIP, allow to exchange routing information on TCP/IP Internet.
- Flash memory function, to upgrate its software online.

• 4 status LED used for monitoring the misarrange and the working status

1.3 Accessories

•	ADSL Modem	1unit
•	Power Adaptor	1unit
•	Telephone line with RJ-11	2pcs
•	Ethernet line with RJ-45	1pc
•	User manual	1pc
•	Spliter	1 unit
•	Guarantee	1pc
•	Warrant	1pc

Please check out the accessories, if any lack or damage to them, please contact the local distributors.

1.4 LED description

A1100E ADSL Modem has 4 pcs of Status LED, by which you can inspect the performance:

LED	Colour	Status description
POWER	Red	On: Power on
		Off: Power off
ADSL	Green	On: Effective ADSL connect to Internet
		Off: MODEM does not startup completely
		Sparkling: Startup MODEM, but no effective
		ADSL connect to Internet
DATA	Green	Sparkling: Data transmission on Internet
LAN	Green	Sparkling: Data transmission on Intranet
		Off: Intranet not connect
		On: Intranet connect

1.5 Backboard Description

The Backboard includes: power Jack, RJ-45, ADSL line port, and reset button, their descriptions as below:

Ports	Descriptions
LINE	Connect to the modem port of the splitter by the attached line
LAN	Connect to the netcard port of your computer by the attached Ethernet line
RESET	Back to factory default: firstly turn off the power of modem; then pressing the reset button till turning on the power of modem and waiting for 7 seconds; finally waiting for about 2 minutes, the startup is completed. Note: Don't shut off the power before the startup is completed.
PWR	Power port; connect to the attached power adaptor.

Chapter 2. Hardware Installation

2.1 Preparation

Please do the below preparation before hardware installation:

- Please sign an agreement with the local ISP/NSP operators, who can provide you with Internet service and help you install the ADSL Modem.
- Mandatory accessories: 10/100Base-T Ethernet Card
- Mandatory accessories: RJ-45 Ethernet line (attached)
- Mandatory accessories: RJ-11 telephone line (attached)
- Mandatory accessories: Power adaptor (attached)
- Mandatory accessories: Splitter (attached)

2.2 Hardware installation

Please install the hardware according to the below steps:

- 1. Connect LAN port of the modem to Netcard port of your computer by the attached Ethernet line.
- 2. Connect Line port of the modem to modem port of the splitter by the attached telephone line.
- 3. Connect RJ-11 port of your telephone to phone port of the splitter by the other attached telephone line.
- 4. Connect to Line port of the splitter with outside telephone line.
- 5. Insert the power plug into the port marked "PWR" on the backboard of the modem, then connect the power adaptor to the power, installation finished after its autoinspction is normal.

Caution: Please assure you connect to the power plug of the modem, and then connect the power adaptor to the power.

2.3 Hardware connection drawing



Chapter 3. Quick Setting

This modem has 7 groups of default PVC under bridge mode. If your PVC does not fall into this range, please add a new group of VPI/VCI on the "Quick setting" interface. You can also add a new one on the "Advanced setting" interface. If your PVC does fall into this range, but the mode is different, please click "Edit" button on the "Advanced setting" interface, but don't change the PVC value when you edit the mode.

3.1 Preparation for Quick Setting

Please acquaint yourself with the below contents before you set the modem:

- 1. The default intranet IP of the modem: 192.168.1.1, User name: admin, Password: admin.
- 2. Assure that the netcard driver program and TCP/IP protocal are installed correctly. The gateway: 192.168.1.1, IP: 192.168.1.x (1 < x < 255), assure that your computer has the same intranet subnet with your modem.

You must obtain the connect mode and the relevant parameters from your ISP operators. You can find more information regarding the connect mode and parameters in Chapter 4.2.

3.2 Quick Setting under various protocals

3.2.1 PPPoE.

Preparation:

- IP address auto obtaining or appoint an IP address in the same subnet as the modem
- DNS provided by your ISP operator, or auto obtaining
- VPI/VCI Provided by your ISP operator

• Account User and passard provided by your ISP operator

Procedures:

1.Open Explorer and type 192.168.1.1 in the website address bar, then type user name (admin), and passward (admin), enter Quick Setting Interface of the modem.

2.Type VPI/VCI, then click "next"

TCL C	
Ouki Setup Device Info Advanced Setup Disposition Management Technology Support	Dick Setup This Quad, Setup will guade you through the steps necessary to configure your DSL Router. ATM PVC Configuration Salect the deal: bits below to enable DSL Auto-connect process. Image: DBL Auto-connect The Vrtail Path Identifier (VFI) and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VFI and Vrtail (2005)

3. Select PPPoE, and then click "next"

TCL co	ADSL MOEDM
Odek Setup Devke Info Arkvanced Setup Diagnostics Management Technology Support	Connection Type Select the type of network protocol and encapsulation mode over the ATM PVC that your ISP has instructed you to use. Note that OUC.1q.VLAN tagging is only available for PPP-0; MER and Bridging. PPP over ATM (PPD-0) MAC Encapsulation Routing (MER) Pr over ATM (IPO-0) Content on the second of the second o
	Enc.apsolation Mode LLC//SR0BEITO INF C Back Next

4. Type user name and passward, then click "next"

TCL co	ADSL MOEDM
Quick Setup	PPP lisename and Password
Device Info	
Advanced Setup	PPP usually requires that you have a user name and password to establish your connection. In the boxes below, enter the user
Diagnostics	name and password that your ISP has provided to you.
Management	
Technology Support	
	PPP Username: hzz288764@163.gd
	PPP Password:
	PPPoE Service Name:
	Authentication Method: AUTO
	Back Next

5. Show setting information, if ok, click "save".

Quick Setup			
Device Info	WAN Setup - Summ	ary	
Advanced Setup	Make sure that the set	ttings below match the set	tings provided by your ISP.
Diagnostics			
Management	VPI / VCI:	0/36	
Technology Support	Connection Type:	PPPoE	
	Service Name:	pppoe_0_36_1	
	Service Category:	UBR	
	IP Address:	Automatically Assigned	
	Service State:	Enabled	
	NAT:	Enabled	
	Firewall:	Enabled	
	IGMP Multicast:	Disabled	
	Quality Of Service:	Disabled	
	IGMP Multicast: Quality Of Service: Click "Save/Reboot" to NOTE: The configurat	Disabled Disabled save those settings and r on process takes about 1	eboot router. Click "Back" to make any modifications. minute to complete and your DSL Router will reboot.

6.Show the page you just setted, please check out the input data, if everything is ok, and click "finish"

Quick Setup Device Info Advanced Setup	Wide Are	a Networ	k (WAN) S	etup							
WAN	Choose Sa	ve,Reboot	to apply the	changes and re	boot the syste	m.					
LAN	-										
Security	VPI/VCI	Con. ID	Category	Service	Interface	Protocol	Igmp	QoS	State	Remove	Edit
Routing	1/39	1	UBR	mer_1_39	nas_1_39	MER	Disabled	Disabled	Enabled		Edit
DSL	0/32	1	UBR	br_0_32	nas_0_32	Bridge	N/A	Disabled	Enabled	•	Edit
Diagnostics											
Management	0/35	1	UBR	br_0_35	nas_0_35	Bridge	N/A	Disabled	Enabled		Edit
Technology Support	0/100	1	UBR	br_0_100	nas_0_100	Bridge	N/A	Disabled	Enabled		Edit
	5/35	1	UBR	br_5_35	nas_5_35	Bridge	N/A	Disabled	Enabled	-	Edit
	8/35	1	UBR	br_8_35	nas_8_35	Bridge	N/A	Disabled	Enabled	•	Edit
	0/01	1	UBR	br_0_01	nas_0_01	Bridge	N/A	Disabled	Enabled	•	Edit
	0/36	1	UBR	pppoe_0_36_1	ppp_0_36_1	PPPOE	Disabled	Disabled	Enabled	-	Edit

7. Modem will reboot, after that it will open automatically the page, which show you with system status of the modem. Two minutes later, the dial-up will finish, the relevant information will be shown as the below picture.

Quick Setup Device Info	Device Info			
Summary	Board ID:	96338	L-2M-RM	
a statice	Software Version:	2.02	07.A2p8019a1.d162	
Route	Bootloader (DE) Version:	1.0.37	-0.8	
DHCP Idvanced Settig	This information reflects the	eservert a	datus of your DSL connection	
agreatics	Line Eate - Destroam (V)	tion beauty		
Kanagemeent Referanksgy Support	Line Rate - Downstream (Kbps):			
	LAN IP Address:		192.168.1.1	
	Default Gateway:		Conceptore and the	
	Primary DNS Server:		192.168.1.1	
	Secondary DVS Server:		192.168.1.1	

3.2.2 Bridging

Preparation:

- IP Address auto obtaining or appoint an IP address in the same subnet as the modem
- DNS provided by your ISP operator, or auto obtaining
- VPI/VCI Provided by your ISP operator
- Account User and passard provided by your ISP operator

Procedures:

1.Open Explorer and type 192.168.1.1 in the website address bar, then type user name (admin), and passward (admin), enter Quick Setting Interface of the modem.

2.Type VPI/VCI, then click "next"



3.Select "Bridging", click "next"

TCL co	DMMUNICATION ADSL MOEDM
Dukk Setup Device Inde Advanced Setup Diagnestics Maragement Technology Sapport	Connection type: Safet the type of network protocal and analoguations mode over the ATM PVC that your. SIP has restructed you to use fails that SIC 1997 or and 497000 (Connection to drag 49700) C 1997 over ATM (9700) C 197 over ATM (9700)
	Torcapeulation Mode LLC/1844-18156380 s

4.Show setting information, if ok, click "save"..



5. Show the page you just setted, please check out the input data, if everything is ok, and then click "finish" to restart the modem.



- 6. Install the dial-up software in your computor, and enter the account and the password provided by ISP, then go to Internet via dial-up mode.
- 3.3 Using ADSL2/2+
 - 1. This product support the newest ADSL2/2+ technology, if you want to use ADSL2/ADSL2+, please set the interface under "DSL" menu of advanced setup as below.



2. Mark ADSL2 or ADSL2+ with " $\sqrt{}$ ", your Modem can support ADSL2/2+ after clicking the "apply" button.

Appendix A Questions and answers

The appendix lists down the questions and answers you perhaps meet when you install and use the modem.

Questions	Recommended Solutions
LED	
Turn on the power, but the power LED off	Assure that the power adaptor is the attached one and the connection is well.
Connect the telephone line; The time of ADSL LED sparkling is more than 5 minutes.	In fact LED should be on after it sparkles for about 2 minutes. If not, please assure that the telephone line is the attached one, and the RJ-11 connect is well
Connect the Ethernet line, LAN LED off	Assure that the Ethernet line connecting is well, not loosen.
Dialup software faults	
If the dialup window shows	It indicates that the network does not connect.

If the dialup window shows	It indicates that the network does not connect.
"Begin Negotiation", then	The reason is that the Ethernet line or telephone
waiting, at last pop-up a	line does not connect well. Please check out the
bar "time out"	connection and retry it.

If the dialup window shows that "Begin Negotiation", then show "Authenticating", at last shows "Authentication Failed"	The user name or passward is wrong	
Others		
Your computer always breaks down	Perhaps it causes by the quality of netcard or its bad compatibility. Especially 10M netcard with dated ISA bus. Please adaopt the 10M/100M Ethernet card.	
ADSL modem always breaks down	There is a broadcast storm in your intranet, please find out the reason of broadcast storm, such as "shock wave" virus or loop intranet.	
Dialup software can't be installed	Check out if there is virus or some software conflicts, uninstall redundant dialup softwares; install the correct one, such as ENTERNET, RASPPPOE, and WINPPPOE. (XP can directly build up DSL connect). Perhaps there is damage to TCP/IP protocols, please reinstall the protocols.	