DotSurfer User Manual



Version: 1.0.0

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DotSurfer Introduction



GTRAN DotSurfer 1X PCMCIA Card is high-speed Wireless Modem that supports up to 153Kpbs under cdma2000 1X Network.

Product Features

- → Supports wireless connection up to 153Kbps under cdma2000 1x Network
- → Minimizes laptop battery power consumption through self Power control
- \rightarrow Send and Receive SMS under any operating system
- \rightarrow Can check for card status while online
- → Supports OS that majority of the users use such as Windows 98, 2000, XP, CE 3.0 and Linux. (Plans to support MacOS and PalmOS)
- → Provides Application Program in order to maximize user's convenience.

> WINDOWS 2000/XP Procedures

- 1. Driver Install
- 2. Driver Uninstall
- 3. Driver Update

1. Driver Install

1. Insert the Card.

When Found New Hardware Check Wizard screen appears, choose the option as below and click Next> button.

Found New Hardware Wizard
Install Hardware Device Drivers A device driver is a software program that enables a hardware device to work with an operating system.
This wizard will complete the installation for this device: GTRAN CDMA2000_1X_DotSurfer_Card_Rev_1.0 A device driver is a software program that makes a hardware device work. Windows needs driver files for your new device. To locate driver files and complete the installation click Next. What do you want the wizard to do?
Search for a suitable driver for my device (recommended) Display a list of the known drivers for this device so that I can choose a specific
driver < <u>B</u> ack <u>N</u> ext > Cancel

②. Choose location to search for Driver file and click Next> button.

Found New Hardware Wizard	
Locate Driver Files Where do you want Windows to search	for driver files?
Search for driver files for the following ha	rdware device:
GTRAN CDMA2000_1X_DotS	urfer_Card_Rev_1.0
The wizard searches for suitable drivers any of the following optional search local	n its driver database on your computer and in tions that you specify.
To start the search, click Next. If you are insert the floppy disk or CD before clickin	esearching on a floppy disk or CD-ROM drive, Ig Next.
Optional search locations: Floppy <u>disk drives</u> CD-ROM drives	
Specify a location	
	<u> </u>

③. Assign file path and click **OK** button.

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④. From the assigned route, search for driver file. Once file is found, you'll see a screen that says "Found New Hardware Wizard".

Click Next> button and go to the next step.

Found New Hardware Wizard
Driver Files Search Results The wizard has finished searching for driver files for your hardware device.
The wizard found a driver for the following device:
GTRAN CDMA2000_1X_DolSurfer_Card_Rev_1.0
Windows found a driver for this device. To install the driver Windows found, click Next.
d:\win2k driver\1xdsw2k.inf
<u> </u>

(5). You'll see the screen below since we currently do not have digital name provided by Microsoft. Continue with the installation. Click Yes button and the installation will be complete.

Digital Signature Not Fo	ind	×
	The Microsoft digital signature affirms that software has been tested with Windows and that the software has not been altered since it was tested. The software you are about to install does not contain a Microsoft digital signature. Therefore, there is no guarantee that this software works correctly with Windows. GTRAN DotSurfer 153K Wireless Modem If you want to search for Microsoft digitally signed software, visit the Windows Update Web site at http://windowsupdate.microsoft.com to see if one is available. Do you want to continue the installation?	
		1

(6). To check if Driver installation is complete, go to Start -> Properties-> Control Panel-> System -> Hardware -> Device Manager -> Modem. You can verify that GTRAN DotSurfer 153K Wireless Modem is installed.

2. Driver uninstall

- ①. Go to Start and choose Properties -> Control Panel-> System.
- ②. Go to System Properties window and choose Hardware -> Device Manager tab.
- ③. Go to Device Manager window and choose Modem-> GTRAN Dotsurfer....
- ④. Choose GTRAN DotSurfer.. Modem and right click the mouse. Choose Uninstall from the pop-up menu and uninstall will start.



3. Driver Update

- ①. Follow <u>2. Driver uninstall</u> procedure shown above and remove the device driver.
- ②. Click subfolder INF which is under Windows folder. However, you may not see the INF folder. In this case, go to View, click Option, and choose Show All Files.
- ③. In the INF folder, find all the INF type files that begin with "OEM".
- ④. Open this file from a text editor such as Notepad. If you see a phrase "GTRAN 1X Dotsurfer" on top of the text, delete the file that has PNF extension that is the same name.
- (5). Prepare the newest version of Win2K(or XP) DotSurfer Device Driver.
- (6). Remove the Card and reinsert. Then select and install the newest version device driver by following <u>1. Driver install</u> procedure.

WINDOWS 98/ME Procedures

- 1. Driver install
 - Windows 98
 - Windows ME

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- 2. Driver uninstall
- 3. Driver Update

1. Driver Install

1.1 Windows 98

1. Insert the Card.

When "Add New Hardware Check Wizard " screen appears, choose the option as below and click Next> button.

dd New Hardware Wi	zard This wizard searches for new drivers for:
	GTRAN-CDMA2000 1X DotSurfer Card Rev 1.0
	A device driver is a software program that makes a hardware device work.
🌯 🚓	
	Eack Next> Cancel

2. Choose the option as shown below and click Next> button.

Add New Hardware Wiz	ard What do you want Windows to do? Search for the best driver for your device. [Recommended]. C Display a list of all the drivers in a specific location, so you can select the driver you want.
	<back next=""> Cancel</back>

③. Select the location to search for new Driver and click Next> button.

Windows will search for new drivers in its driver database on your hard drive, and in any of the following selected locations. Click Next to start the search. □ Eloppy disk drives □ CD-ROM drive □ Microsoft Windows Update □ Specify a location:
D:\win98_ME Driver
 Browse Kext > Cancel

④. Once Driver file is found from the assigned location, you'll see a screen showing the search result. Click Next> button.

Add New Hardware Wiz	zard
	GTRAN DotSurfer 153K Wireless Modem Windows has finished installing the software that your new hardware device requires.
	K Back Finish Cancel

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⑤. Once Driver installation is complete, go to Start and click Settings-> Control Panel-> Modem. You will be able to check whether GTRAN DotSurfer 153K Wireless Modem is installed.



1.2 Windows ME

- ①. Insert the CD.
- ②. Insert the Card. When "Add New Hardware Wizard " screen appears, choose the option as below and click Next> button.

 Windows has found the following new hardware:	
GTRAN-CDMA2000 1X DotSurfer Card Rev 1.0	
Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.	
What would you like to do?	
 Automatic search for a better driver (Recommended) 	
Specify the location of the driver (Advanced)	
 (Back Next) Cancel	

 If the install is completed regularly, then the screen appears as below. Click Finish button.



2. Driver Uninstall

- ①. Go to Start and select Settings-> Control Panel-> Modem.
- ②. From Modem Registration Information window, select GTRAN Dotsurfer 153 Wireless Modem.

Modems Properties	? ×
General Diagnostics	
The following modems are set up on this co	omputer.
GTRAN DotSurfer 153K Wireless Modem	
Add Remove Prope	erties
Dialing preferences	
Dialing from: New Location	
Click Dialing Properties to modify how your calls a dialed.	re
<u>D</u> ialing Properties	
<u> </u>	Cancel

③. While selected, click **Remove** button.

3. Driver Update

- ①. Follow <u>2. Driver uninstall</u> procedure shown above and remove the device driver.
- 2. Click subfolder $\ensuremath{\mathsf{INF}}$ which is under Windows folder.
- (3). Click subfolder OTHER which is under $\ensuremath{\mathsf{INF}}$.

- ④. From this directory, delete file that begins with GTRAN 1X.
- (5). Get newest version of Win98 DotSurfer Device Driver.
- (6). Remove the card and reinsert follow procedures under <u>1. Driver install</u> to install.
 Here, select the newest version of Device Driver.

> WINDOWS 2000/XP and WINDOWS 98/ME

Procedures

1. GT Dialer II Installation

- Initial Install
- Update Install
- Uninstall

2. GT Dialer II Program User Manual

- Main Screen and Icon Description
- Network Connect and Disconnect
- Internet Connection
- SMS Send and Receive
- Address Book Management
- Theme and Other Configuration
- Call History

3. GT Indicator

- GT Indicator User Manual

- GT Indicator Icon Description

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1. GT Dialer II program

1.1 Initial install

- ③. Run **Setup.exe**. Install Shield Wizard will start in order to assist the installation process.
- ④. Assign path to install the program and click Next> button.
- (5). From the screen asking for the installation type, choose the type you want and click Next> button.

InstallShield Wiz	ard 🗙
Setup Type Select the Set	up Type to install.
Click the type	of Setup you prefer, then click Next.
Typical	Program will be installed with the most common options. Recommended for most users.
C Compact	Program will be installed with minimum required options.
C Custom	You may choose the options you want to install. Recommended for advanced users.
InstallShield	/ Back Nexts Cancel

Procedures for each installation method are explained below.

1.1.1 Standard Installation

- Select Standard Installation and click Next> button as shown above. Install Shield Wizard will automatically complete the installation.
 Under Standard Installation, GT Dialer II, GT Indicator, GT Updater, Basic Theme file, document file, and Device Driver file will be installed.
- While installing, if msvcrt.dll file already exists, you'll see the screen below.
 Complete the installation by clicking lgnore.



1.1.2 Minimum Installation

Select **Minimum Installation** and click **Next>** button from the Installation Type Select screen. Install Shield Wizard will automatically complete the installation.

Under Minimum Installation, GT Dialer II, GT Updater, Basic Theme file will be installed.

1.1.3 Custom Installation

- Select Custom Installation and click Next> button from the Installation Type Select screen.
- ②. Select the item that the install program install and click Next> button. Install Shield Wizard will automatically complete the installation.

If you select GT Indicator program, 'Basic program file' and 'GT Dialer II Skin file' will automatically be selected as well.

allShield Wizard	
elect Components Choose the components Setup will install.	
Select the components you want to install, and clear install. Program Files Documents GT Indicator Windows 98 Device Driver Windows 2000 Device Driver Windows 2000 Device Driver	r the components you do not want to Description Install basic program files like GT Dialer and GT Updater.
I Space Required on C: 918 Space Available on C: 81180 allShield	14 K 18 K
	<back next=""> Cancel</back>

<Caution>

GT Indicator Program runs properly only under IE 5.01 version or higher.

1.2 Update Install

- ①. Connect System from the Network.
- ②. Go to Start and run Program-> GTRAN-> GT Dialer II-> GT Updator. Connect Gtran server for update GT Dialer, then choose item.

	Component	Description	State
Provide and	GTDialer2.exe ✓ DataHand.dll □ default016.swf	GT Dialer II Data Handier DLL Default Skin	Updated Updated

- ③. Select the item to be updated and click Update. This updates new features of GT Dialer II and Device Driver Update in the user's system.
- ④. Once the Update is properly finished, you'll read Updated under State and '2' Item Update Finished' on bottom line

1.3 Remove Program

1.3.1 Remove from Setup program

- ①. Run Setup.exe.
- 2. InstallShield Wizard will run the screen shown below will appear.

Click Remove and click Next> button.

InstallShield W	izard
Welcome Modify, repai	r, or remove the program.
Welcome to current instal	the GTDialerII Setup Maintenance program. This program lets you modify the lation. Click one of the options below.
C Modify	<i>n</i> !
	Select new program components to add or select currently installed components to remove.
C R <u>e</u> pair	Reinstall all program components installed by the previous setup.
• <u>Remove</u>	Remove all installed components.
Instalionield	< Back Next > Cancel

③. When Remove Confirmation screen appears, start the removal process by clicking OK.

1.3.2 Removing from the Control Panel

- 1. Click Start -> Settings -> Control Panel -> Add/Remove Programs.
- ②. Among the programs currently installed, select GT Dialer II and delete by clicking Add/Remove.

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2. GT Dialer II User Manual

To run **GT Dialer II**, go to **Start** and select **Program-> GTRAN-> GT Dialer II** or doubleclick **Shortcut to GT Dialer II** icon from wall paper.

2.1 Main Screen and Icons

Main screen shown below will appear once GT Dialer II starts running.



Icon	Description	Icon	Description
05.04 14:07	GPS Time		No new message
Gtran.com	Connect to www.gtran.com website		New message arrived
Browser	Connect to general website		Roaming Off
Address Book	Phone Directory	R	Roaming
SMS Read	Check for SMS received		Exit GT Dialer
SMS Write	Send SMS	SETTING	Theme, Default Home Page, SMS tone, Theme color set up
Connect/Disconnect	Network Connect or Disconnect		Modem Diagnostic Information and Call History
Toul	Signal Strength	connect 0:0:8	Network Connected Time.
	Card is inserted in the notebook	TX: 2969 RX: 219	Once Connected, Transfer/Receive Byte Size
8	Connected to Network	V NO SVC	No Service
θ	Help		Close application
	Reduce Monitor		Minimize monitor
	Enlarge Monitor	•	Display Phone number, Connection time and Sending/Receiving byte

The feature and meaning of each icon on the main screen is shown below.

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2.2 Network Connect and Disconnect

2.2.1 Connecting

- ①. On the main menu, click **Connect/Disconnect**, and you will be connected to the network.
- ②. As Connect/Disconnect runs, if GT Dialer II does not recognize the card, an error message as shown below will appear.
 - If this screen appears, check for card condition and restart GT Dialer II.



2.2.2 Cancel

- ①. While connected to the network, click Connect/Disconnect.
- 2. Network will be disconnected.

2.3 Connecting to Internet

 Establish network connection by clicking Connect/Disconnect from the main screen. By clicking Browser or Gtran.com icons, you will go to a web browser. Browser goes to the website set up under Setting-> Default Home Page and Gtran.com goes to 'www.gtran.com' homepage.

2.4 Sending and Reading SMS

2.4.1 Sending SMS

①. From the main screen, click SMS Write icon. Send SMS screen will appear.



- 2. Input receiver's phone number and text.
- ③. Once finished inputting, click SEND button and the message will be sent.

2.4.2 Reading SMS

①. From the main screen, click SMS Read icon. Receive SMS screen will appear.



Gtran Korea Inc.		2001-05-07
	new message	
	read message.	
②. To contir	ue to read other messages, select the	em by clicking 🙆 or 💟.

③. To delete the message, click **DELETE**.

2.5 Address Book Management

On the main screen, click **Address Book** icon and **Address Book** screen will appear as shown below.

🗑 GT Dialer II		
05.03 19:51		Gtran Korea
		memory: 4/199
Name :	Jone	index : 1
Home :	123-456-7890	- 00
Office :	123-456-7890	
Celluire :	123-456-7890	<u></u>
E-mail :	Jone@gtran.co.kr	0
NEW		
Search :		
		17
SETTING) (COLOR) ()⊜	

2.5.1 Read and Search Address Book

- 1. To read stored addresses, click 200 and select.
- ②. To search by Name,

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4. To search by E-mail,



2.5.2 Adding to Address Book

- 1. From Address Book screen, click NEW.
- 2. Input Name, Home, Office, Mobile, and E-mail. Click SAVE and inputted data will be stored.

2.5.3 Edit Address Book

- ①. Select the Index to edit and modify appropriate category.
- 2. When editing is finished, click SAVE.

2.5.4 Delete from Address Book

(1). Select the Index to delete and click DELETE.

2.5.5 Miscellaneous

1. To send SMS from Address Book, click 🌌



This screen is the same screen as the one you get from clicking SMS Write from the main screen. The method of sending messages is also same.

To send E-mail from Address Book, click

Clicking the icon will take you to the new message in Outlook Express.

2.6 Set Up Theme and Other

2.6.1 Set up Theme and Other

SETTING 1). From the main screen, click which is at the bottom of the screen. Screen shown below will appear.

Skin File Default Home Page	D:\GTdialer2\Skin\sample.swf
New SMS Sound	 ✓ Using Popup Window when SMS arrived ✓ Using Sound Alert D:\GTdialer2\smsalert.wav
User ID : user	Password: ####
🗾 Using Dynam	iic DNS Server IP
Pri. DNS : 103 Sec. DNS : 0	3 0 0 56 0 0
	OK CANCEL

- 2. To change the Theme, go to Skin File and select the desired file.
- ③. To set up a website that appears from clicking Browser icon on the main screen, go to Default Home Page to set up.
- ④. To set up SMS sound when new message arrives, put a check mark as

shown Using Sound Alert and select the sound. To remove the SMS

received sound, remove the check mark.

⑤. To set up SMS Pop-Up window when new message arrives, Put a check

mark as shown

- 6. To connect network, input the User ID, Password, and DNS Server IP.
- ⑦. Once all the set up is finished, click OK.

2.6.2 Color Set Up

1. Click which is at the bottom of the main screen.

Once a color is selected, outline color of Theme screen will change.

2.7 Access Detailed Usage Information

1. Click 🗓 which is at the bottom of the main screen and you will see a screen

shown below.		
GT Dialer II version 1.0.0		
2001 Gtran Korea all rights reserved.	S GTRAN Moving data faster.	1 and a
	User Interface : Taehan K Communication Engine : Won Kir	<pre><im <blade@gtran.co.kr<br="">m <wonkim@gtran.co.kr< pre=""></wonkim@gtran.co.kr<></im></pre>
Connection Time	Transfered Packets	<< Reset
This Mon: O hour O min 0 sec Last Mon: O hour O min 0 sec	TX: 0 Packets RX: 0 Packets	OK

- 2. Detailed usage information is explained below:
 - Time Used



Total: Accumulated time of usage before resetting This Mon: Accumulated usage time for this month Last Mon: Accumulated usage time for last month

- Accumulated data volume

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Tran	sfered Packets
	TX: 18 Packets
	RX: 18 Packets

TX: Transferred packet size since network is connected till disconnected RX: Received packet size since network is connected till disconnected

3. GT Indicator

GT Indicator Program is a supplemental program for **GT Dialer**. When web browsing by using IE, the indicator shows information on DotSurfer on top of the screen. Basic user setting should be IE 5.01 or higher and **GT Dialer** should be running properly.

3.1 GT Indicator User Manual

- ①. Open Internet Explorer.
- 2. Go to View -> Toolbars and select GT Indicator.
- ③. Dragging down the right below of address window with the mouse and GT Indicator will appear as shown below.

🚵 about:blank - Microsoft Internet Explorer	
File Edit View Favorites Tools Help	
↓ Back + → - ③ ② ☆ ◎ Search 📷 Favorites ③History 🖏 🚽 🗐 🖳	
Address 🖉 about:blank	🗾 🖉 Go 🗍 Lir
GTRAN TUIL 📝 🖻 SEARCH GTRAN 🖉 LINK 🗾	05-03 18:01
Launching SMS DialogBox and show SMS messages	

4. To read sms, Click 🔛 .

<u> </u>	Now 3 SMS	6 Message in here.
Please Select	the Message.	
Number	Time	Message
01821894	04-28 18:16	018-218-9403
🖗 01821894	05-03 16:17	SMS TEST 1
01821894	05-03 16:54	test message

3.4 GT Indicator Icons

RSSI Sta	atus Indicator Icon
۳	No Service
Tatl	Signal Strength (RSSI).
CONNEC	CTION Status Indicator Icon
9 /	Modem is connected to Network
*	Network is disconnected
D	Dormant Mode
ROAMIN	G Status Icon
B	Roaming Off
R	Roaming
SMS Dia	log Box Viewer Icon
	No New SMS Message
A	New SMS Message
	Click the icon to read SMS message
GO to W	/eb Page Search Icon
¢	Moves to set up URL page

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> Win CE Procedures

- 1. Driver Install for COMPAQ iPAQ
- 2. GT Dialer Install
 - Connect to Internet
 - GT Dialer User Manual

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1. Driver Install for COMPAQ iPAQ

①. Run 'MicroSoft Active Sync' then synchronize PC and iPAQ PDA.



- ②. Open PC Explorer and run setup.exe which is in Window CE folder under DotSurfer1X Card Install folder.
- ③. From the **Welcome** window, click **Next >** button.



- ④. On the License Agreement screen, click Yes.
- (5). On the screen asking to install in Default Installation Folder, click Yes.



6. When installation is complete, screen will appear as shown below.

As this screen appears, installation automatically will run in iPAQ PDA.

Add/Remove Programs	
Application Downloading Complete	×
Please check your mobile device screen to see if additional steps are necessary to complete th installation,	iis
<u></u>	
Space required for selected programs:	
Space available on device:	
Install program into the default installation folder	
Remove from both locations To remove the selected program from both your device and this computer, click Remove.	
OK Cancel Help	

- Insert DotSurfer 1x card after separated iPAQ PDA from the cradle to stop synchronization between PC and iPAQ.
- Insert the card. Using iPAQ's stylus, press the hole on the right bottom of the PDA to Soft-Reset.

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2. Connecting to Internet

1. Go to Start -> Programs -> Connections -> DotSurfer 1X.



2. When you see the screen below, input user ID, password, etc. and click Connect.

Connec	t To 10:04a
DotSurfer)	18
User namer	
Farsword:	
Exercitero:	
	Save password
Phone:	Won J
Fancel	Connect Dialing Options
123 1 2 3 Tab Q W CAP a s Shift z x CU áŭ *	4 5 6 7 8 9 0 - = + e r t y u i o p [] d 1 g b j k i ; ' c v b n m / + 1 + + -+

③. Once connected, go to Start -> Internet Explorer and start surfing the web.

3. GT Dialer User Manual

- ①. Go to Start -> Programs -> GT Dialer.
- 2. Screen showing DotSurfer 1X status will appear.



- RSSI: Current Signal Strength
- Status: Current Service Status
- SMS: Alerts when SMS arrives
- Protocol: Protocol-Type currently connected
- TX, RX: Transferred/Received Byte
 Size.

3.1 Send and Read SMS

①. After run **"Start -> Programs ->GTDialer"**, click **"Message"** tab on the bottom.



2 . To send SMS, click "New" button on the bottom.

												_	_
E]St	art							1	10:	091	р 🤅)
			r										,
		Τo): [
Message(s):		: [1	
		0/8	0										1
												-	
	Fr	om	: [_	_	_	_	_	_	_	_		1
				_	_			_					1
	S	end	ł	Clear All						Cancel			
123	1	2	3	4	5	6	7	8	9	0	-	=	•
Ta	b q	ĮΨ	<u>v l</u>	e	r	t	y	<u>u</u>	i	O	p	<u>ן ו</u>	1
	<u> </u>				£	-							
CA	P á	a [s			<u>y</u>	n		<u>I K</u>	Ļ	L.		1
CA Sh	וּףׂ (ift	a Z	s ×		V	y b	n n] m	K ,	<u> </u>		/ •	_ _
CA Sh Ct	P ift Ι áί	3 Z J	s ×	a c \	V	y b	n n] m	K , 	 . ↓	/ /	/ • •	」 →
CA Sh Ct	ift ¦Íái	a Z J	s ×	a c \	V	y b	n n] m	K , 	 ↓	; , ↑	⊥ / ∢ ← 	」 → ▲
CA Sh Ct	ift] Ilái	a z j	s ×		v	y b	n n] [m	K , 	↓ I ↓]	<u> </u> , , ↑	• • €	」 → ▲
CA Sh Ct	ift ift Ι áί	a z i	s ×	a c \	v	y b	n n] m	K , 	↓ ↓	<u> </u> , , ↑	/ • •	」 → ▲

- ③. After in-put the receiver's number and text message, Click "Send" button.
 In the sender's number, already included my number.
- ④. To read SMS, select 'list'.

Double click the line of list's header, when can't see the whole message.

	GTDialer		10:)7p @k
	٩		N" late faiter.	
D	From	Time	Message	-
\sim	016-11	2001/04	lth data	
\sim	016-22	2001/04	2th data	
	016-33	2001/04	3th data	-
नि				DE
lth	data			<u> </u>
				-
Γ	New	Refresh	1 De	lete All
Stat	us Messa	ge Phone B	ook	
New		•		₩4

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3.2 Delete SMS and etc.

- To delete SMS, select the message.
 Then run Stylus's tap-and-hold, display the pop-up menu.
 Select the pop-up menu's "Delete"
- ②. To reply the receive message, select it and run Stylus's tap-and-hold.
 Select pop-up menu's "Reply".
- ③. To forward message to others, run Stylus's tap-and-hold and select pop-up menu's "Forward".

> LINUX Procedures

1. Summary

2. Driver Install

- Install in Kernel Source
- Add to Kernel Module
- Replace Kernel Module

3. Using communication

- Verify Setting
- How to Use PPP

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- How to Use DotSurfer Messenger Program

1. Summary

This section describes DotSurfer PCMCIA card user manual for Linux based laptops.

Need the following in order to use DotSurfer Card:

- Linux Kernel 2.2 or higher
- Basic Module and setup needed to use PCMCIA Card
- setserial 2.17 or higher

This document does not explain the basic items regarding how to use a PCMCIA card in the laptop nor does Gtran Korea provide technical support regarding this. However, you should not worry. Most of the current Linux Package take PCMCIA users into consideration. Unless under a special condition, you should be able to easily use PCMCIA slot. Incase of difficulties, refer to resources such as PCMCIA-HOWTO. You can confirm the user's setserial version as a below

<u>setserial -V</u>

Use capital V for option. If version is lower than 2.17, use setserial command without option and verify whether you can use 16950, 16954 which is listed under uart option. If they are not listed under the option list, current setserial being used should be upgraded to the newest version.

You can get the newest version of setserial package from <u>http://sourceforge.net/</u>. CD provided for user's convenience includes setserial-2.17.tar.gz file.

2. Install

There are three methods of installing DotSurfer 1X Device Driver.

- Install in Kernel Source
- Add to Kernel Module
- Replace Kernel Module

Before installing, login under the root account and decompress dotsurf_drv_1.0.tar.gz file from an appropriate location.

2.1. Install in Kernel Source

- If Kernel source is installed in the system, you can replace the existing Kernel serial Device Driver with DotSurfer Driver. Because device driver of DotSurfer is based on the existing serial Device Driver and supports all general serial communication functions, it should not be a problem to use general serial port.
- In order to combine DotSurfer Driver with Kernel source and upgrade, run installin-kernel script and follow instruction.
- ③. Kernel source is generally installed in /usr/src/linux. Once you assign the location of Kernel source and complete the remaining procedures, source install completes.
- ④. Run Kernel compile process
- ⑤. After the entire Kernel compile/install completes, reboot your computer and your installation will be complete.

2.2. Add to Kernel Module

Adding to Kernel source and installing is a very good method. However, having to go through Kernel compile procedures makes it very inconvenient. More fast way is that device driver is loaded into kernel modules only when DotSurfer card is inserted.

- ①. First, using **make** command, compile the driver.
- 2. Once compile is complete, run **add-module** script.
- 3. Once the installation is complete, insert the card.

2.3. Replace Kernel Module

This method applies only to the case where serial Device Driver is installed as a dynamic Module. However, installation is possible in other cases as well.

Generally, serial Device Driver is included in Kernel as static and most Linux packages will have kernel that has static serial device driver. You can change the **'serial.o'** file to new one if your kernel has **serial.o** modules separatory, or you did compile so. Run **make** command and compile the driver.

①. Run replace-module script and install module.

②. Once the installation is complete, insert the card.

< Caution >

* Make sure to select only one of the three methods from above. If you are not sure about which method to use, follow the third method.

3. Using Communication

3.1 Verify Setting

If the driver is installed, you can have wireless network connection using DotSurfer Card. While the card is inserted, DotSurfer card should have a port such as /dev/ttyS1 allotted and in such a case, there should be a /dev/modem link under the applicable port.

 Using setserial /dev/ttyS1 -q command, verify whether the port is set up as below:

/dev/ttyS1, UART:16950/954, Port: 0x2f8, IRQ: 3 flags:spd_cust

Because Port and IRQ change depending on the system and situation, you don't need to worry about it.

②. Also, using Is -I /dev/DotSurfer command, verify whether there is a device file as below:

<u>crw-rw-rw-1 root root 202, 1 1 월 1 12:00 /dev/DotSurfer</u>

③. If there is no such file, you can create it using mknod command. DotSurfer Card provides high-speed data speed of 230400bps. However, it is not necessary to modify the speed of the application in use to 230400bps. Speed of all the communication programs such as gau, and kppp must be set at 115200bps. You may think that application programs are communicated at 115kbps but the actual speed provided by device driver is 230kbps.

< Caution >

Keep in mind that if application program speed is selected as other than 115200bps, you cannot use DotSurfer card.

3.2 How to Use PPP

When connecting to PPP, **noauth** option must be used. But noauth's option is only root's permission. Also, PPP connection program run root's permission.

There are various ways to connect to PPP using **pppd**. Which method to use is not important.

Note: Run pppd with root's authority as noauth option.

Please refer to various online references for information on how to use pppd.

4. How to Use DotSurfer Messenger Program

DotSurfer Messenger program is an X application that allows usage of DotSurfer's various supplemental functions. The system must have GTK+ Library installed. Most of the Package have GTK+ Library. Through DotSurfer Messenger program, you can check for various card status and utilize supplemental functions such as send/receive SMS. Program is distributed as binary RPM package.

After installing messenger-1.0.0-1.i386.rpm file, run /usr/bin/messenger.



This equipment complies with part 15 of the FCC rules. Any changes or modifications not expressly approved by the GTRAN WIRELESS, INC. could void the user's authority to operate the equipment.