

CDMA 1X 1900MHz User Manual



Version: 0.1

Do not insert the DotSurfer modem card into your laptop before you insert the software CD!!

GPC-4000

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1. DotSurfer® 1X-1900 Introduction

GTRAN Wireless DotSurfer® 1X-1900 is a high-speed wireless Type II PCMCIA modem card that fits into major laptops and PDAs. Allowing for wireless Internet connectivity under CDMA2000 network, DotSurfer 1X-1900 delivers unmatched speed at up to 153Kkbps. At 86 mm in length, DotSurfer is small, compact and inserts perfectly into a laptop or PDA and has a flexible antenna applicable for all mobile users.

All DotSurfer modem card packages include the following components:

- DotSurfer 1X-1900 PCMCIA modem card with the flexible antenna
- User Manual
- Quick Start Guide
- CD-ROM containing the GT Dialer software

Product Features

- ► Flexible antenna
- ► Supports wireless data connection speeds up to 153Kbps
- ► Minimizes laptop battery power consumption through Self Power Control
- ► Compact, lightweight 86 x 54 x 5 mm and only 35 grams
- ► Sends and receives SMS messages on networks that support 2-Way SMS
- ► Real time card status indicators while on-line
- ▶ Supports Windows 95, 98, 2000, ME, NT, CE 3.0 and Linux

2. Installation for Windows 98, 2000, and ME

Do not insert the DotSurfer modem card into your laptop before you insert the software CD!!

- a. Close all the other programs that are running before starting the application.
- b. Insert the installation software CD into your CD-ROM drive. The InstallShield Wizard should run automatically. If it does not, click Start-> Run and enter d:\Setup.exe. Replace d: with the drive letter for your CD ROM drive, if necessary.
- c. The InstallShield Wizard will guide you through the installation.
- d. From the Setup screen, choose Typical and click Next> and follow the rest of the instructions.

Select the Se	tup 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.
Custom	You may choose the options you want to install. Recommended for advanced users.
ilShield	

e. Select your choice under the System Reboot screen.



f. Insert the DotSurfer 1X-1900 modem card into the PC slot of your laptop. Make sure that the installation CD is still in the laptop. Your Windows will automatically search for and load a device driver for the DotSurfer modem card and you will see the screen below. Once the device driver is loaded, the screen will disappear.



* For <u>WINDOWS</u> 2000, you'll see the following Digital Signature Not Found screen. Click the Yes button.

•	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
Ŵ	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?

g. Now the DotSurfer 1X-1900 modem card is ready for use!

3. Using GT Dialer

Insert the **DotSurfer 1X-1900** modem card into your notebook computer. To run **GT Dialer**, double-click **GT Dialer** icon from the desktop or go to **Start** and select **Program-> GTRAN-> GT Dialer**.

3.1 Main Screen and Icons

Main screen shown below will appear once the GT Dialer is opened.



Icons and their features

Icon	Description	Icon	Description
July 06 1:47 pm	Local date and time		No new message

Internet	Connect to Internet	NEW SMS	New message arrived
Address Book	Phone directory	R	Roaming off
Read Messages	Read SMS messages	R	Roaming
Write Messages	Send SMS message	exit	Exit GT Dialer
		SETTING	Screen graphic, SMS tone, default homepage set up
Sent Messages	Sent box	COLOR	Screen color set up
Connect/Disconnect	Network connect or disconnect	0	Modem diagnostic information and call history
Tull	Signal strength	×	Close application
NO SVC	No service		Help
\checkmark	Card is inserted in the notebook	9	Display phone number, connection time and bytes sent and received
	Connected to network		Minimize screen
	Dormant state		Decrease screen size one step
TX bytes: RX bytes:	Once connected, transfer/receive byte size		Increase screen size one step

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3.2 Network Connection

To connect to network, open the **GT Dialer** and click the **Connect/Disconnect** button. To disconnect, simply click the **Connect/Disconnect** button again.

3.3 Internet Connection

Establish network connection by clicking **Connect/Disconnect** from the main screen. By clicking the **Internet** icon, you will go to a web browser. To change the default website which is set up under the **Internet** icon, click **Setting** and enter the desired website URL.

3.4 SMS

3.4.1 Sending SMS Messages

a. From the main screen, click Write Messages icon. NEW MESSAGE screen will appear.



- b. Input receiver's phone number and text.
- c. Once finished inputting, click one of the three buttons: SEND, SAVE, or SEND & SAVE.

SEND	Sends new message without saving in Sent box
SEND & SAVE	Sends new message and saves in Sent box
SAVE	Saves new message in Sent box without sending

3.4.2 Reading SMS Messages

From the main screen, click Read Messages icon. RECEIVED MESSAGES screen will appear.



4.4.3 Sent Messages (Sent Box)

Click Sent Messages button from the main screen.



BACK Goes back to the main window

3.5 Address Book Management

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



3.5.1 Search Address Book

You may search by name, by phone number,



3.5.2 Add to Address Book

- a. From Address Book screen, click NEW. If you enter the address information without first clicking NEW, the information you input will NOT be saved.
- b. Input name, home number, office number, mobile number, and e-mail address. Click **SAVE** and the inputted data will be stored.

3.5.3 Edit Address Book

- a. Select the address to edit and update information.
- b. When editing is finished, click **SAVE**.

3.5.4 Delete from Address Book

Select the address to delete and click **DELETE**.

3.6 Screen Graphic, Sound, SMS Pop-up Window, and Connection Set Up

a. From the main screen, click which is at the bottom of the screen. Screen shown below

will appear. Enter the appropriate information to customize your settings.

Settings	
Look and Feel	Visual appearance of the GT Dialer
Skin File C:\Program Files\GTRAN Wireless\GT Dialer\sw	visual appearance of the OT blater
Default Home Page www.gtranwireless.com	
	Default URL when you click to
User ID gnc	connect to the Internet.
Password ***	
Connection Settings Dial Up Phone Number #777 DNS Pri. Sec. Vuse Dynamic DNS Server IP (Disables above entries)	
SMS Alert When new SMS has arrived 🔽 Use Popup Window 🔽 Use Sound Alert Sound Alert File c:\Program Files\GTRAN Wireless\GT Dialer\swf	
OK Cancel	

- b. If you do not know your User ID and Password, please consult your wireless service provider. Most systems use Dynamic DNS Server IP. If you encounter network problems and you do not know the DNS addresses, please consult your wireless service provider.
- c. SMS Received Sound Alert \rightarrow To have sound when you receive a new SMS, put a check mark as

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

check mark.

d. SMS Received Pop-Up Window \rightarrow To have a pop-up window alert when you receive a new SMS,

put a check mark as shown

- e. To connect to network → input the user ID, password, and DNS Server IP. Generally, use 'set default value' (User ID, Password, Dynamic DNS Server IP).
- f. Once the set up is finished, click **OK**.

3.7 Color Set Up

This feature is to change the outline color of your GT Dialer.

a. Click which is at the bottom of the main **GT Dialer** screen.

Color Selection	x
Current Background Color	
Red: 90 Green: 128 Blue: 192	Change color
Use skin's default background color This will override the above color selection.	OK Cancel

b. Click Change color... and select the color you want

- 1	1.11
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Do not set the color to black. You won't see some of the buttons on the screen.

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Color Selection	×
Current Background Color	
Red: 255 Green: 0 Blue: 0	Change color
Use skin's default background color This will override the above color selection.	OK Cancel

c. Click **OK**. The outline color of the **GT Dialer** screen will change.

?]GT Dialer 👘	
Aug 16 11:05am	Pre-Release Version V G TRAN
Write Messages	Read Messages Sent Messages
Internet	Address Book
	Connect/Disconnect
7 .011 <	
GTRAN DotSurfer	
Setting Color i	
858-204-8275	Duration: 00:00:00 TX bytes: 0 RX bytes: 0

3.8 Detailed Connection Information

Click (1) at the bottom of the main **GT Dialer** screen and you will see a screen as shown below.



Usage information is an estimate only and may vary depending on your carrier's billing policies.

4. GT Indicator

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

4.1 GT Indicator User Manual

- a. Open Internet Explorer.
- b. Go to View -> Toolbars and select GT Indicator. You should see the GT Indicator on Explorer as shown below.

🚰 GTRAN Wireless: Mobile Internet Access - Microsoft Internet Explorer	_ 🗆 ×
Eile Edit View Favorites Iools Help	1
] ⇐ Back ▾ ⇒ ▾ 🚳 👔 🖓 🔞 Search 👔 Favorites 🔇 History 🔤 ▾ 🎒	
Address 🙆 http://www.gtranwireless.com	▼ @60
Links 🕙 Customize Linke 🎽 GTRAN 🍸 💻 😰 🛛 SEARCH 🛛 GTRAN 🖉 📄	
GTRAN VIRELESS HOME PRODUCTS EVENTS CUSTOMER SERVICE SERVICE CONTACT US CORPORATE PRESSROOM EMPLOYMENT CONTACT US	<u> </u>

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c. To read SMS, Click $\textcircled{\text{boldsystem}}$ and you'll see a screen shown below.

GTRAN - SMS Mess	age			
Message You have 2 SMS messages in your Inbox. Please select the message to read.				
From	Time	Message		
" ∄ 9999999999	07/09 09:24 07/07 14:17	zzhou@gtran.com sdfa zzhou@gtran.com (sub) 777		
•		► I		
		CLOSE		

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4.2 GT Indicator Icons

RSSI Sta	RSSI Status Indicator Icon				
Ŧ	No service				
Tull	Signal strength (RSSI)				
CONNE	CTION Status Indicator Icon				
91	Modem is connected to network				
×	Modem is disconnected from network				
D	Modem is in dormant mode				
ROAMI	ROAMING Status Icon				
B	Roaming off				
B	Roaming				
SMS Dia	log Box Viewer Icon				
	No new SMS message				
	New SMS message				
	Click the icon to read SMS messages				
GO to W	eb Page Search Icon				
Ĉ	Goes to selected URL page				

5. Windows CE (Pocket PC Procedures) 5.1 Installation for COMPAQ iPAQ

- a. In addition to your iPAQ, you need the following:
 - USB cradle
 - Desktop or laptop PC
 - PC card expansion pack

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b. Insert **Microsoft ActiveSync3.1** CD into your computer to synchronize your PC and iPAQ PDA. For help with this procedure, please look at the user manual for iPAQ. Once the computer and the iPAQ

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Microsoft ActiveSync File View Tools Help	X
Sync Stop Details Explore Options	
Pocket_PC	
Connected Synchronized	
Information Type Status	

are synchronized, you should see the screen shown below on your PC.

c. Insert DotSurfer installation CD into your PC. Click Cancel on the following screen.

Choose S	etup Language 🛛 🗙
	Select the language for this installation from the choices below.
	English 💌
	OK Cancel

- d. Go to Start -> Programs -> Windows Explorer -> D:\ -> WinCE -> Sa1110 -> setup.exe, where D is the driver for CD-ROM.
- e. Follow the on-screen instructions.
- f. On the screen asking to install Default Installation Folder, click Yes.

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program from your device. Note: If a program that you installed is not listed, the program not designed to be used on your mobile device. Ing Applications I "Gtran Korea 1X DotSurfer" using the default application inst Yes No Cancel	ogram was
Note: If a program that you installed is not listed, the program not designed to be used on your mobile device.	ogram was
ng Applications I "Gtran Korea 1X DotSurfer" using the default application insl Yes No Cancel	on install di
ng Applications I "Gtran Korea 1X DotSurfer" using the default application insl Yes No Cancel	on install di
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ng Applications I "Gtran Korea 1X DotSurfer" using the default application insi Yes No Cancel	on install di
l "Gtran Korea 1X DotSurfer" using the default application insi	on install di
Yes No Cancel	on install di
Yes No Cancel	
	1
	
Space required for selected programs	33
Space available on device:	
✓ Install program into the default installation folder	
Remove from both locations	
	9

g. When installation is complete, screen will appear as shown below. Click **OK** and the installation

automatically will run in iPAQ PDA.

	Add/Remove Programs	×
	Select a program's check box if you want to install it on your mobile device, or clear the check box if you want to remove t program from your device. Note: If a program that you installed is not listed, the program not designed to be used on your mobile device.	he was
Application Down	oading Complete	×
Please check your	mobile device screen to see if additional steps are necessary t	o complete this installation.
	Space required for selected programs:	
	Space available on device:	
	Image: 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	

- h. When the synchronization is complete, take out the iPAQ from the cradle. Attach the PC card expansion pack onto the PDA and insert the DotSurfer® CDMA 1X card into the PC card slot.
- i. Using iPAQ's stylus, press the reset button on the right bottom of the PDA.

5.2 Connecting to Internet

a. Go to **Start -> Programs -> Connections ->DotSurfer**® **1X**.

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🗿 Connec	tions	오후 5:12 🤅	<u>e</u> k)
0	••@	Ĩ.	
ActiveSync	IR ActiveSync	DotSurfer1X	
	Activosync		
To create a ne Modem setting	w modem con s.	nection, go to	
		á de la companya de l	•

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

🔀 Connect To	오후 5:17
DotSurfer1X	
User name: Gtran	
Password: *******	
Domain:	
🖌 Save password	
Phone: T011	
Dial from: Work	•
Cancel Connect Dialing	Options
Edit	.

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

5.3 GT Dialer User Manual

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

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< Before connection>

<After connection>



Receiving signal strength

New SMS message received



Card connection status

5.3.1 Send and Read SMS Messages

a. Click **Message** tab on the bottom of GT Dialer main screen.



b. To send an SMS message, click New button on the bottom and create a message.



- c. Input the destination number and text message and click **Send** button.
- d. To read an SMS message, double-click the message.

5.3.2 Delete, Reply, Forward SMS Messages

a. To delete an SMS message, select the message. Using the Stylus, tap and hold, which will display the pop-up menu. Select **Delete** from the pop-up menu.

1	GTDiale	r	-	오후 5 :	55 🛞	
	S GTRAN- Moning data faster.					
	Sent ∇ You've saved 7 message(s)					
D	То		Message 🔺		-	
	0119008	9013	GtranM	oving D	ata F ≡	
	0119008	9013	5th Messa	ge!		
	0119008	9013	Reply		-	
1	For			rd		
5th Message!		d	Delete		<u></u>	
	New Refresh Delete All			e All		
Stati	Status Message Phone Book					
Tool	Tool Help 🌌 🔺					

- b. To reply to the received message, select the message and with the Stylus, tap and hold. Select **Reply** from the pop-up menu.
- c. To forward a message to others, using the Stylus, tap and hold. Select Forward from the menu.

5.3.3 Phone Book

a. Click **Phone Book** tab, which is located at the bottom of GT Dialer.

🎒 GTDia	ler	오후	5:38 @k
	¢ G _™	RAN	
			8/100
Name	Home	Office	Cell
brad victor won jason peter jack katherine mike	02-485	031-3	017-713 011-471- 016-809- 017-336- 011-558- 016-387- 011-975-
•	Ш		•
New	Searc	h Del	lete All
Status Mes	sage Phone	: Book	
Tool Help			1

b. To add new number, click New button, input the info and click Save.

🋃 GT	Dialer 오후 5:41 🞯
Name:	brad
Home:	02-485-0000
Office:	031-380-0000
Cell:	017-713-0000
E-mail:	mymail@gtran.co.kr
	Save Cancel
Esc[1]2 → ■]0] ← Bk_a ① Shift Ctl ⊉ 자	2]3]4]5]6]7]8]9]0]-]=]\ w[e]r]t]y]u]i]0[p][]]]s]d]f]9]h]j]k[]];]']← z]x]c[v]b]n]m],]]/[û@ Alt]0el]†]↓[←]→[2½%]

c. To search for the phone number or string from your contact list, click **Search** button. Enter a number or string and click **OK** button.

訳	GTDia	er		오후 5:4 4
		¢.G₁	RAN	
_			ng caco tario.	8/100
S	earch			
s	earch [зБф ОК	C	ancel
kat	herine			011-975
Stat	us Mes	sage Phone	Book	
Esc —₩ ←Bk	1 2 3 q w a s	1415[6] e[r[t]y [d[f]g]H	/18191 [u] i [c 1] i [k]	
습s⊦ Ctl	ift Z) 한자 Alt		n [m] , [Del] †]	[]/]☆읍 ↓[←]→]한/영
				1

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- d. To send an SMS message to a person listed under contact list, select a contact with the stylus by tapping and holding. Select **Send SMS** or **Send E-Mail** from the pop-up menu.
- e. To edit a contact from the list, click Edit from the pop-up menu and edit.
- f. To delete a contact from the list, click **Delete** from the pop-up menu

🛃 GTDia	er	오후 5:53 🛞		
	∽ G _{II}	RAN" ing clubs faster.		
			8/100	
Name	Home	Office	Cell	
brad	02-485	031-3	017-713	
won jason peter jack katherine mike	victor won jason peter jack katherine mike Delete		011-471 016-809 017-336- 011-558- 016-387- 011-975	
New Search Delete All				
Status Mes	sage Phone	Book		
Tool Help			1	

5.3.4 Other Displays

From GT Dialer main screen, click Tool -> Information -> Time.

🎘 GTDialer	오전 9:25 🛞				
S GTRAN MOVING data Varian					
No. 100	received message				
Connected					
My Card Number is 0182189403					
Inform: Time	!				
Setting Tran	sfer Packets				
Exit	ione Book				
Tool Help	2				

- Go to **Tool** -> **Information** -> **Time** to access Connection Time display.

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Total used: Total time used prior to resetting the accumulated time This Month: Accumulated time for this month Last Month: Accumulated time for last month

- Go to **Tool** -> **Information** -> **Transfer Packets** to display Transfer Packets status. Card displays the transfer packets. A packet size defines to 512 bytes.



OUT: Received packets during connection

IN: Sent packets during connection

From GT Dialer main screen, click **Tool** -> **Setting**. You'll see three options on the pop-up menu: **Message**, **Sound**, and **Connect**.



- To select a method of receiving, go to Tool -> Setting -> Message. If inbox is full, select Rejected new msg and select Deleted the oldest & stored new msg.

🏭 GTDialer	오전 9:19			
S GTRAN	fastor.			
Message alert setting				
If inbox is full, Alerted new	msg would be			
Rejected new msg Deleted the oldest & stored new msg				
ОК	Cancel			
My Card Number is 0	182189403			
Connect				
Status Message Phone Boo	ik 🛛			
	1			

- To select Message Alert sound, go to Tool -> Setting -> Sound. Choose a wav file and click OK button.

3 GTDialer 오후 6:01
S GTRAN
Sound
Enter Message Alert
(Windows\Infbeg.wav
OK Play Cancel
My Card Number is 01190089013
Disconnect
Status Message Phone Book
* 2

- To go to Connection Setting, click **Tool** -> **Setting** -> **Connect**. Use set value as is, with the exception of certain cases.

劉	GTDialer	오후 6:02 🛞
Соп	nection Setting	
	User ID: Password:	Gtran
	Use spe	cific server address
	DNS:	
	OK	Cancel
Esc → H ← B k ① S H C tl	1 2 3 4 5 q w e r 1 : a s d f .ift z x c v 한자[Alt]	[6]7]8]9]0]-]=]\ t]y]u]i]0]p][]] g]h]j]k]I];]']← [b]n]m],]-]/[☆&]0e][1]↓]←]⊉[%g
		₫ ▲



6. LINUX Procedures

To access the manual for Linux based software installation procedure, go to www.gtranwireless.com.

Appendix A: Updating the GT Dialer (GT Updater)

GT Updater is a unique application included in the DotSurfer software suite. It allows the user to check, download, and update the latest DotSurfer software remotely with intuitive graphical user interface. Examples of the components that can be updated are:

- GT Dialer skin
- Application
- Device driver

Through **GT Updater**, user can download the newest GT Dialer skins, latest available features and enhancements.

- a. Open GT Dialer and connect to network.
- b. Close the GT Dialer without disconnecting from the network.
- c. Go to Start and run Program-> GTRAN Wireless-> GT Dialer -> GT Updater.
- d. **GT Updater** will automatically connect to the Update Server and display the updated components available on the server. If no newer components are available on the server, the available component entry will be blank.

e. Select the components to be updated and click **Update**.

📆 GTRAN DotSurfer Software Updater 🔰 🔁					
	Available Components				
	Component	Description	Status		
	GTDialer.exe	DotSufer Dialer 1.0	Updated		
	🗹 gtindetr.dll	GT Indicator 1.0	Updated		
	🗹 gtdtshr.dll	Data Share DLL 1.0	Updated		
	defaultSP.swf	Spanish Skin 1.0			
Poetautier					
Update completed.			Update		

- f. Once update is completed, the update results will be shown in the **Status** column.
- g. Exit the **GT Updater** and reboot the computer.

Appendix B: Product Specifications

Card Slot	1 Type II PCMCIA						
Computer	5 Mb's free hard drive space, 32 Mb of ram & a CD-ROM						
Operating	Windows	Windows	Windows	Windows	Windows	Windows	Linux
System	95 98 ME 2000 NT CE* (See						(See
	www.gtranwireless.com)						

System Requirements

*Requires appropriate adapter to interface to Type II PCMCIA card

Environmental and Electrical Specifications

Operating Temp:	-30° - +60° C Ambient, outside PC card enclosure
Storage Temp:	-30 ~ +70
Humidity:	90%
Vibration:	100 ~ 500 Hz
Drop:	90 Cm
Voltage	3.3 VDC
Current	TX 850 mA MAX, RX 150 mA MAX, Sleep Mode 2.5mA MAX
Transmit Power	200 mW MAX
Transmit Frequency	1850 MHz - 1909.950 MHz

Receive Frequency	1930 MHz- 1989.950 MHz
Channel Spacing	45 MHz
Frequency Stability	+/- 300Hz

Appendix C: Safety and Regulatory Information

Safety and Hazards

DotSurfer modem card should not be used in any environment where radio frequency equipment is restricted or prohibited to be in use. This includes airports/aircrafts, hospitals, and other areas susceptible to any form of radio interference. DotSurfer can transmit signals that could interfere with various systems in aircraft, medical equipments, and life support equipments. To insure safety, The DotSurfer modem card must be turned off under above conditions.

Regulatory Information

TBD

4,901,307	5,490,165	5,056,109	5,504,773	5,101,501			
5,506,865	5,109,390	5,511,073	5,228,054	5,535,239			
5,267,261	5,544,196	5,267,262	5,568,483	5,337,338			
5,600,754	5,414,796	5,657,420	5,416,797	5,659,569			
5,710,784	5,778,338						

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