SIMADO GDT11 System Manual





Documentation Information

This is a general documentation and it covers many models with different specifications. A particular product may not support all the features and facilities described in the documentation.

Matrix Telecom reserves the right to revise information in this publication for any reason without prior notice. Information in this documentation may change from time to time. Matrix Telecom makes no warranties with respect to this documentation and disclaims any implied warranties. While every precaution has been taken in preparation of this system manual, Matrix Telecom assumes no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Matrix Telecom reserves the right without prior notice to make changes in design or components of the equipment as engineering and manufacturing may warrant.

Neither Matrix Telecom nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs or expenses incurred by purchaser or third parties as a result of: accident, misuse or abuse of this product or unauthorized modifications, repairs or alterations to this product or failure to strictly comply with Matrix Telecom's operating and maintenance instructions.

All rights reserved. No part of this system manual may be copied or reproduced in any form or by any means without the prior written consent of Matrix Telecom.

Contents

Section 1: Introduction	. 5
Welcome	7
Packing List	8
Warranty Statement	9
Introducing the System	12
Installing the System	13
Getting Started	15
	Ū
Section 2: Features and Facilities	21
Data Services	23
Fax Services	37
GPRS (General Packet Radio Service)	17
SMS (Short Message Service)	76
Voice Services	ຄ
	~
Section 3: Appendix	91
Appendix A: Technical Specifications	33
Notes	75
Programming Register	36

Section 1: Introduction

Welcome

Thanks for purchasing a Matrix product.

We want you to get the maximum performance from our product. If you run into technical difficulties, we are here to help. But please consult this system manual first.

If you still can't find the answer, gather all the information or questions that apply to your problem and, with the product close to you, call your dealer. Matrix dealers are trained and ready to give you the support you need to get the most from your Matrix product. In fact, most problems reported are minor and can be easily solved over the phone.

In addition, technical consultation is available from Matrix engineers every business day. We are always ready to give advice on application requirements or specific information on installation and operation of our products.

The system manual is divided in following sections: <u>Section 1</u>: Introduction <u>Section 2</u>: Features and Facilities <u>Section 3</u>: Appendix

We suggest the first time users to read this system manual in the following sequence.

- Section 1
- Section 2

The user can use page named '<u>Notes</u>' for making note of customer's requirement and '<u>Programming Register</u>' for registering the programming changes datewise. These could be used for future reference.

Packing List

The ideal sales package for SIMADO GDT11 is as mentioned below:

Sr.	Accessories	Qty.
01	SIMADO GDT11	1
02	Antenna	1
03	System Manual	1
04	Modem Cable	1
05	Adapter 9VDC 1Amp	1
06	Screw M 7/30	1
07	Screw Grip	1
08	Warranty Card Set	1
09	Support Card	1
10	SIMADO GDT11 CD	1

- Please make sure that these components are present.
- In case of short supply or damage detection, contact the source from where you have purchased the system.

=X=X=

Warranty Statement

Matrix Telecom Pvt. Ltd. (Matrix) warrants to its consumer purchaser any of its products to be free of defects in material, workmanship and performance for a period of 15 months from date of manufacturing or 12 months from the date of installation which ever is earlier.

During this warranty period, Matrix will at its option, repair or replace the product at no additional charge if the product is found to have manufacturing defect. Any replacement product or part/s may be furnished on an exchange basis, which shall be new or like-new, provided that it has functionality at least equal to that of the product, being replaced. All replacement parts and products will be the property of Matrix. Parts repaired or replaced will be under warranty throughout the remainder of the original warranty period only.

This limited warranty does not apply to:

- Products that have been subjected to abuse, accident, natural disaster, misuse, modification, tampering, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed.
- 2. Products which have been damaged by lightning storms, water or power surges or which have been neglected, altered, used for a purpose other than the one for which they were manufactured, repaired by customer or any party without Matrix's written authorization or used in any manner inconsistent with Matrix's instructions.
- 3. Products received improperly packed or physically damaged.
- 4. Products damaged due to operation of product outside the products' specifications or use without designated protections.

Warranty valid only if:

- Primary protection on all the ports provided.
- Mains supply is within limit and protected.
- Environment conditions are maintained as per the product specifications.

Warranty Card:

- When the product is installed, please return the warranty card with:
 - Date, signature and stamp of the customer.
 - Date, signature and stamp of the channel partner.
- Matrix assumes that the customer agrees with the warranty terms even when the warranty card is not signed and returned as suggested.

The Purchaser shall have to bear shipping charges for sending product to Matrix for testing/rectification. The product shall be shipped to the Purchaser at no-charge if the material is found to be under warranty. The Purchaser shall have to either insure the product or assume liability for loss or damage during transit. Matrix reserves the right to waive off or make any changes in its warranty policy without giving any notice.

If Matrix is unable to repair or replace, as applicable, a defective product which is covered by Matrix warranty, Matrix shall, within a reasonable time after being notified of the defect, refund the purchase price of the product provided the consumer/purchaser returns the product to Matrix.

In no event will Matrix be liable for any damages including lost profits, lost business, lost savings, downtime or delay, labor, repair or material cost, injury to person, property or other incidental or consequential damages arising out of use of or inability to use such product, even if Matrix has been advised of the possibility of such damages or losses, or for any claim by any other party.

Except for the obligations specifically set forth in this Warranty Policy Statement, in no event shall Matrix be liable for any direct, indirect, special, incidental or consequential damages whether based on contract or any other legal theory and where advised of the possibility of such damages.

Neither Matrix nor any of its distributors, dealers or sub-dealers makes any other warranty of any kind, whether expressed or

implied, with respect to Matrix products. Matrix and its distributors, dealers or sub-dealers specifically disclaim the implied warranties of merchantability and fitness for a particular purpose.

This warranty is not transferable and applies only to the original consumer purchaser of the Product. Warranty shall be void if the warranty card is not completed and registered with Matrix within 30 days of installation.

Introducing the System

The Matrix SIMADO GDT11 is a compact, ready to use unit providing a standard 9 pin RS232 port (serial) for data communication. When a PC is connected to the serial port, the SIMADO GDT11 can efficiently be used for web browsing, sending and receiving SMS, data transfer and fax services. The SIMADO GDT11 which can be setup with minimal effort, finds

its application in business establishments, SOHO, Institutions, etc.

The SIMADO GDT11 offers advanced features like:

- 1. Short Message Services (Sending and Receiving of SMS).
- 2. Data Services (Sending and Receiving Data files).
- 3. Web Browsing (Exploring the Internet).
- 4. Fax Services (Sending and Receiving fax).

The SIMADO GDT11 is shown in the figure given below:



=X=X=

Installing the System

Safety Instructions

- Never do telephone wiring during a lightening storm.
- Avoid using telephone other than a cordless type during an electric storm. There may be a remote risk of electric shock from lightening.
- Never use a telephone to report gas leaks if it is near gas leak.
- Do not touch non-insulated telephone wires or terminals before disconnecting at the network interface.
- Do not install this product near water, for example near a bathtub, washing bowl, kitchen sink, laundry tub, swimming pool etc.
- Slots on enclosure are for proper ventilation. They will protect the system from overheating. Never cover the slots.
- Never place this product on heated place or any other equipment.
- Never push objects of any kind inside this product. This may short-circuit various parts.
- Unplug this product from electric wall outlet in following cases and contact authorized service personnel.
 - Liquid spills on to the product.
 - Product exposed to rain or water.
 - Product does not operate normally by following operating instructions.
 - Product dropped from height.
 - Product exhibits unusual change in performance.
- Do not open the system in power ON condition. Never try to remove the SIM card in power ON condition.

Installing the SIMADO GDT11

- Don't power the system.
- Do not use the unit with damaged antenna.
- Fix the system on the selected site. Please refer 'SIMADO GDT11 Mechanical Drawing' at the end of this topic. The site chosen should ensure best call quality (Maximum signal strength)
- Check the voltage at the power point from where the supply is to be accessed via the adapter. It should be between 90 to 265VAC, 47-65Hz.

- Insert the SIM Card in the SIM card holder provided in the bottom of the SIMADO GDT11.
- Please note that the SIM card gets easily damaged by scratches or bending. Be careful when handling, inserting or removing the card.
- Connect the power supply to the system. Ensure proper contacts.
- To avoid the damage to the SIM card, do not power ON the system till the SIM is installed.
- Connect the PC to the COM port of the SIMADO GDT11 using the communication cable provided by Matrix.





Getting Started

After strictly following the safety instructions and installing the SIMADO GDT11 the system is now ready to be switched on.

- Switch on the system. The LED labelled ON glows.
- The SIM card detection takes place automatically.
- The system now searches for the network and when successfully registered on the network, LED marked 'NW' flashes slowly.
- When the network is available LED marked 'NW' starts blinking slightly faster.
- The SIMADO GDT11 is now ready for use.

Testing the Installation

1. Click on Start → Programs → Accessories → Communication → HyperTerminal.



Matrix

2. Double click on Hypertrm Icon.



3. A New Connection Dialog Box with a text box for connection description appears.



4. Enter a relevant name in the text box (such as the SIMADO GDT11 connection), choose an Icon from the Icon list provided and click on **OK** button.

Connection Description		? ×
New Connection		
Enter a name and choose an ic	on for the connection:	
<u>N</u> ame:		
SIMADO GDT11		_
lcon:		
*	평 🍪 .	>
	OK Cano	el

 In the "Connect To" Window, to fill up the 'Connect Using' text box select the relevant COM Port. The rest of the options are disabled automatically. Click on **OK** button.

Connect To		? ×
🧞 SIMADO	D GDT11	
Enter details for	the phone number that you want to	dial:
<u>C</u> ountry code:	India (91)	Ŧ
Ar <u>e</u> a code:		
Phone number:		
Co <u>n</u> nect using:	Direct to Com1	•
	Cance	9

 In the COM Properties Window make the following entries. Bits per seconds=115200, Data bits = 8, Parity = None, Stop bits = One, Flow control = Hardware. Click on OK button.

COM1 Properties
Port Settings
Bits per second: 115200
Data bits: 8
Parity: None
Stop bits: 1
Elow control: Hardware
<u>A</u> dvanced <u>R</u> estore Defaults
OK Cancel Apply

7. In the HyperTerminal Window, Click on the **Call** Menu and then Click on Menu Item **Disconnect.**



• The installation is complete.

Relevant Topic:

1. Installing the System 13

Section 2: Features and Facilities

Data Services

What's this?

SIMADO GDT11 allows GSM users to send and receive data files over the GSM network.

How to Send/Receive Data using the SIMADO GDT11?

- 1. The data transfer service for the SIM used in the SIMADO GDT11 must be enabled from the Service Provider.
- 2. Set up the Modem.
- 3. Create a connection type using HyperTerminal.
- 4. You can successfully send/receive data using the SIMADO GDT11.

How to program? Setup the Modem

1. Click on Start \rightarrow Setting \rightarrow Control Panel.



Matrix

2. Double Click on the Modem Icon.



3. Modem properties dialog box opens as shown below. Click on Add.



 In Install New Modem window *check* 'Don't detect my modem; I will select from a list'. Click on Next button.



5. Select **Standard 33600 bps Modem** for models. Click on **Next** for the next screen.

Install New Modem		
Click the or if you	; manufacturer and model of your modem. If your modem is not listed, have an installation disk, click Have Disk.	
Manufacturers: Standard Moden (VoiceView Mode 3Com 3X Accton Technolo Accesx •	Models Types) Standard 14400 bps Modem Standard 19200 bps Modem Standard 28800 bps Modem Standard 36000 bps Modem Standard 56000 bps K56Flex Modem Standard 56000 bps V90 Modem Standard 56000 bps X2 Modem <u>Have Disk</u>	
	< <u>B</u> ack <u>Next></u> Cancel	

6. Select **Communication Port (COM1)** before clicking on **Next** for the next screen. Please ensure that COM1 is the correct communication port for the serial port of your PC.



7. The confirmation for Modem installation is received. Click on **Finish** button.



7. Click on **Close** button.

Modems Properties		
General Diagnostics		
The following modems are set up on this computer:		
Standard 33600 bps Modem		
Add Rgmove Properties		
Dialing preferences		
Dialing from: RVS-COM for ADSL		
Click Dialing Properties to modify how your calls are dialed.		
Dialing Properties		
Close		

Create a connection type

1. Click on Start \rightarrow Programs \rightarrow Accessories \rightarrow Communication \rightarrow HyperTerminal.



2. A New Connection Dialog Box with a text box for connection description appears.



3. Enter a relevant name in the text box (such as the SIMADO GDT11 connection), choose an icon from the icon list provided and click on **OK** button.



4. In the "Connect To" Window, to fill up the 'Connect Using' text box select the newly installed Modem. In the text box for Phone number fill in the number of the destination. Click on **OK** button.

Connect To	<u>? ×</u>		
SIMADO GDT11			
Enter details for	the phone number that you want to dial:		
Country/region:	India (91) 💌		
Area code:	0265		
Phone number:	9998032917		
Connect using:	Standard 33600 bps Modem 💌		
	OK Cancel		

5. Click on **Modify** button.

Connect				? ×
🧞 simadi	D GDT11			
Phone number:	9998032917		Modify	
Your location:	My Location	•	Dialing Prope	rties
Calling card:	None (Direct Dial)			
		Dial	Can	cel

6. In the response window *Uncheck* the 'Use country code and area code' check box. Click on **OK**.

51	IMADO GDT11 Properties	? ×
	Connect To Settings	
	SIMADO GDT11 Change Icon	
	Country/region: India (91)	
	Enter the area code without the long-distance prefix.	
	Area code: 0265	
	Phone number: 9998032917	
	Connect using: Standard 33600 bps Modem 💌	
	Configure	
Use country/region code and area code Redial on busy		
OK Cancel		

7. In the response window, Click on Cancel.

Connect		<u>?</u> ×
🧞 SIMADI	D GDT11	
Phone number:	9998032917	Modify
Your location:	My Location	Dialing Properties
Calling card:	None (Direct Dial)	
	Dial	Cancel

How to use it? Sending the data files using the SIMADO GDT11

1. Double click on the connection type created. Click on the **Call** menu and in the dropdown menu click on **Call** menu item.



2. Click on **Dial** if the destination number is same as the Phone number displayed. If not, Click on the **Modify** button and change the Phone number and then Click on **Dial**.

Connect		? ×
🧞 simadi	D GDT11	
Phone number:	9998032917	Modify
Your location:	My Location	Dialing Properties
Calling card:	None (Direct Dial)	
·	Dia	Cancel

3. The status bar of the HyperTerminal window displays connected. Click on **Transfer** menu and in the dropdown menu. Click on **Send File** menu item.

SIMADO GDT11 - HyperTerminal	
File Edit View Call Transfer Help	
Send File Receive File Capture Text Send Text File Capture to Printer	
Sends a file to the remote system	_

 In the response window choose the file to be transferred by clicking on browse. Ensure that the protocol selected is 'ZModem'. Click on Send.

📲 Send File			? ×
Folder: C:\			
Filename:			
I			Browse
Protocol:			~
Zmodem with Cras	h Recovery		•
	Send	Close	Cancel

Matrix

Select File to Ser	nd				<u>? ×</u>
Look in:	🗊 Local Disk (D:))			
	AWMODEM		1 KB	Setup Information	11/12/2005 10:36 Af
	BWCHANGE		1 KB	Registration Entries	10/5/2005 4:01 PM
History	BWRESTOR		1 KB	Registration Entries	10/5/2005 4:01 PM
	🐻 capture		1 KB	Configuration Settings	4/11/2006 2:32 PM
	elock		81 KB	Video Clip	12/7/1999 12:00 PM
Desktop	E COM+		2 KB	Text Document	9/21/2005 3:02 PM
	🗏 comsetup		64 KB	Text Document	4/5/2006 12:50 PM
	🐻 control		0 KB	Configuration Settings	8/2/2005 11:00 AM
My Documents	C corelpf		28 KB	Language Resource	7/6/1999 1:09 PM
	🗏 dasetup		66 KB	Text Document	2/3/2006 5:50 PM
	i delexe		40 KB	Application	11/17/2000 4:01 PM
My Computer	delttsul		6 KB	Application	12/7/1999 12:00 PM
	1			•	· · ·
	File name:	comsetup		-	Open N
My Network P	Files of type:	All Files (*.*)		•	Cancel
		J			•//

👯 Send File			<u>? ×</u>
Folder: C:\WIN	INT		
Filename:			
C:\WINNT\co	msetup.log		Browse
Protocol:			
Zmodem			•
	Send 💦	Close	Cancel

5. The progress of data transfer is displayed as follows.

Zmodem fil	e send for SIMADO GDT11	
Sending:	C:\WINNT\comsetup.log	
Last event:	Sending	Files: 1 of 1
Status:	Sending	Retries: 0
File:		12k of 64K
Elapsed:	00:00:08 Remaining: 00:00:35	Throughput: 1517 cps
		Cancel cps/bps

6. The destination should be Receiving File mode. Once the data transfer is over the connection can be disconnected and re-established if and when required.

Receiving the data files using the SIMADO GDT11

 Double Click on the connection type created. Click on the Call menu and in the dropdown menu Click on Wait for Call menu item.

🏶 SIMADO GDT11 - HyperTerminal	
File Edit View Call Transfer Help	
Wait for a Call	
- Stop Waiting	
Disconnect	
II	
	_
Waits for incoming calls	

2. The status bar of the HyperTerminal window displays waiting for call.

🍓 SIMADO GDT11 - Hyp	erTerminal					
File Edit View Call Tr	ansfer Help					
	5 🖻					
Waiting for calls	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	Capture

3. Click on **Transfer** and in the dropdown menu Click on **Receive File**.

SIMADO GDT11 - HyperTerminal	
File Edit View Call Transfer Help	
File Call Transfer Heip Send File Send File Capture Text Send Text File Capture to Printer	
Receives a file from the remote system	

 In the response box you can program the destination for storing the received file. Ensure the receiving protocol is 'ZModem'. Click on Close.

🗱 Receive File		? ×
Place received fil	e in the following folder:	
D:V		Browse
Use receiving pro	otocol:	
Zmodem		•
	Receive	Cancel

5. When a data file is received the progress status as shown below is displayed.

Zmodem fil	e receive for SIMADO GDT11	
Receiving:	ARM 7&9 PRESENTATION.PDF	
Storing as:	D:VARM 7&9 PRESENTATION.PDF	Files: 1 of 1
Last event:	Receiving	Retries: 1
Status:	Receiving	
File:	1111	186k of 1853K
Elapsed:	00:02:57 Remaining: 00:26:30	Throughput: 1073 cps
	Cancel	Skip filecps/bps

6. Once the data transfer is complete the above dialog box disappears and the received data file can be accessed from the prior programmed destination. The connection can be disconnected and re-established if and when required.

=X=X=
Fax Services

What's this?

The GSM Fax and Data Service allows GSM users to send and receive fax over the GSM network. The Matrix SIMADO GDT11 supports sending and receiving of Fax.

How to use it?

- The Fax Service for the SIM used in the SIMADO GDT11 must be enabled from the service provider.
- A PC Fax application which is Fax Class 2.0 compliant must be installed on the Computer.
- Proceed with the further Set-up as per the WinFax Application requirement are as under.
- Go to Control Panel → System → Device Manager → Modem → Open Standard 19200bps Modem → Modem Tab → Set the Maximum Port Speed to 19200.

Standard 33600 bps Modem Properties	? ×
General Modem Diagnostics Advanced Driver	
Port: COM1	
Speaker volume	
Low High	
Maximum Port Speed	
19200	
Dial Control	
Wait for dial tone before dialing	
OK I	Cancel

2. Go to Control Panel \rightarrow System \rightarrow Device Manager \rightarrow Modem \rightarrow Open Standard 19200bps Modem \rightarrow Advance Tab \rightarrow Set the Extra Settings to AT+IPR=19200; AT&F&D0&C1&K3S7=90S10=200.

tandard 19200 bps Modem Properties	?
General Modem Diagnostics Advanced Driver	
Extra Settings	
Extra initialization commands:	
AT+IPR=19200;AT&F&D0&C1&K3S7=90S10=200	
Change Default Preferences	ar and
	. 0
OK	Cancel

3. On HyperTerminal → **Set AT+IPR** (Note: Do this step every time before running Symantec WinFax).



- 4. Make sure SIM Card is inserted and power is supplied.
- 5. Launch WinFax PRO Message Manager.



- 6. Go to Tools \rightarrow Program Setup \rightarrow Modems and Communications Devices.
- 7. Select Active devices for location at Cellular (PCS/GSM-Digital).
- 8. Select Active modem **Standard 19200 bps Modem** and Click on **Yes** button.



9. Click Next.



10. Query **Modem Results.** After Querying Modem results. Click on **Next** button.

Modem Configuration	Nizard - T	esting Modem	×
symantec.	Please wait This should Checking: Status: Results:	while Setup tests and verifies your modem. take less than a minute. Standard 19200 bps Modem Completed This modem supports Fax, Data This is a Class 2.0 fax modem. Max fax transmit speed: 14400 bps. Max fax receive speed: 14400 bps.	
		< Back Next > Cancel	

11. Your modem has been successfully configured. Click on **Finish**.



12. Check only **Cellular (PCS/GSM-Digital)** of check box. Click **OK**.



 Select Standard 19200bps Modem and Click on Properties button. Select General Tab. Select COM1 initialize at 19200bps. Select Modem type to be Class 2.0.

Properties for: Standard 33600 bps Modem	<u>? ×</u>
General Fax	
Communications port	
Volume	
Off High	
Cn until connected	
Modern type	- II
Class 2.0	
OK Cancel Ap	ply

 Select Fax Tab. Transmission speed to be 9600bps. Add AT&F&D0&C1&K3S7=90S10=200 to the initializating string sequence. Flow control to be AT+FCLASS=2.0. Check Use hardware flow control is ATZ.

Properties for: Standard 19200 bps M	lodem 🔹 🔀
General Fax	
Set faxing options for your modern.	
My modern is connected to a Regular or	Cellular (PCS/GSM-Digital) 💌 telephone,
so use these settings when faxing: Transmission speed	Initialization string sequence
Maximum: 9600 bps 💌	1. F&D2&C1&K3S7=90S10=200
Minimum: Send at any rate	2.
Joend at any rate	3.
- Options	4.
ECM for sending	Flow control: AT+FCLASS=2.0
ECM for receiving	Use hardware flow control
Eligh speed compression (20)	Reset: ATZ
 Enginapood odlipicssion (2D) 	Default
	Close Cancel Apply

15. Click Receiving Setup. Select Automatically answer incoming calls after **2 rings.** Click on **OK** button.

Receive Properties	
General Advanced After Receive Junk fax	
Specify the options you want to use for answering calls.	
OK Cancel Apply	

16. Click **Dialing Setup**. Make sure **Standard 19200bps Modem** is **Selected**. Click **Apply** and then **OK**.

Dialing Properties
General Off-peak Location Calling Cards
Specify how you want to dial from this location.
Location: Cellular (PCS/GSM-Dig _ New Remove
Long distance access: Change
For this device Standard 19200 bps Modem
The area code is:
The phone number is:
Dial prefix (call waiting etc.):
Dial suffix:
Use calling card:
Pulse dial
OK Cancel Apply

17. Open the document to be faxed. Print the document with **WinFax Printer**. Click on **OK**.

Print						<u>? ×</u>
Printer <u>N</u> ame:		WinFax			•	Properties
Status: Type: Where: Comment:	Idle WinFax FaxMode Print to t	m his device to send a fa	ax.			Fin <u>d</u> Printer Print to fi <u>l</u> e Manual duple <u>×</u>
Page range All C Current p Pages: Enter page n separated by	age Jumbers ar v commas.	C Selection Id/or page ranges For example, 1,3,5-	12	Copies Number of copies:	1	Collate
Print <u>w</u> hat: P <u>r</u> int:	Documen All pages	t in range	•	Zoom Pages per s <u>h</u> eet: Scale to paper size:	1 page No Scalir	rg r
Options				[ОК	Close

18. WinFax PRO Send will initialize. Kindly follow the guided steps. Click **Send** button to send the fax.

🥸 WinFax PRO Send	
File Edit View Insert Recipient Options Help	
🖃 Send 😰 Preview 🖃 Email 😼 🦠 👻 🌾	
To: Matrix Telecom Pvt. Ltd.	Name A 1 Company A 2
Number: 02652636598	INTERNEY-2 MATRIX TELECOM PVT, LTD.
Company: Matrix	2
🖹 Add to List 🔂 Schedule 🗙 (<u>2</u>
Hecipients: Matrix Telecom Pvt. Ltd. Fax Now	
Subject	
Quick Cover Page 💌 💌 💌 🗷 🖳	I 🕾 Annotate 🕰 😻
FACSIMILE COVER PAGE	
To : Matrix Telecom Pvt. Ltd.	From : INTERNEY-2
Sent : 4/3/2006 at 6:13:06 PM Subject :	Pages : 1 (including cover)
Test fax from WinFax	
Cover Page	
_	-
Cover Page	
O Ready.	1 Pages

19. Sending Fax in Progress.

婱 Symantec Mess	age Manager Line Status		- 🗆 🗵
Connection Device	e Status		
Standard 19200	b Send fax to Matrix Telecom	Pvt. Ltd., Negotiating	
I			_
Device:	Standard 19200 bps Modem		
Operation:	Negotiating		10
Name:	Matrix Telecom Pvt. Ltd.	1	
Number:	02653042682		
Remote CSID:	+91 265 2636598		
Speed:	9600		-
Current page:	2 of 2 (100% complete)		
	, (,		
No Details		Car	ncel

20. Receiving Fax in Progress.

😻 Symantec Mess	age Man	nager Line Statu	s		
Connection Device	e Stal	tus			
Standard 19200	b Rec	ceive fax from Unki	nown, Re	eceiving page (MH)	
					_
					_
Device:	Standard	d 19200 bos Moder	n		
Operation:	Receivin	ng page (MH)			
Speed:	9600				
					St.
					8
Current page:	1				
No Details					Cancel

Matrix

WinFax PRO Viewer - 1478001				_ 🗆 🗵
File Edit View Insert Format Tools	: Layout Help			
] 🛎 🖬 🖨 🖪, 🖤 🕹 🖬 🕻	l 10 🕅 🕘 🗇 🏹 🖉 🕑			
NIADOG VV	🌾 🖂 🤽 🛛 Arial 📃	14 · B / U 📰 🗏 🗏		
FR	IOM : MATRIX TELECOM PUT.LTD. PHONE		4 2006 11:186	M P1
Contraction of the second s	Matrix			
Contraction Planets 11.	Contraction of Contraction (Contraction)		Run (11	
BR. W.	Feature Name	Sociare Programme an Sociality	Krig.	
Page 1	Emergency Detection and Repartment To clear energency detection and the set To program energency telephones at To assion LAG to dist out an entrefic-	"SND-# "SND-#aden-Americany designious Namber-#" "S27-Teach on the American		-
rage i	External Call Forward (ECF:	2000 ES 100 S	Kor Ver	
	To enable/disable BCF on a trank	3201-1-Trush & ade 3202.1.Trush Juntinurian Trank Access Group	Yes Yes	
And the last	To assign a TAG to forward for definition when	1203-1-Trante Triepinge Number-#*/"Hold>	Yes Yes	
1.1.1	To assign default the FAG of the trunk.	3202-1-Trunk		
Contract of the second s	Flash Timer	4445 Y 87 7 1	Yes Yes	
1.1.1.1	To program flash timer for a SL1	(AD2-1-51 7-8 (AD2-1-51 7-8	Yes Yes	_
	To program flash timer for a DKP	S602-I-DEP-CHINE	Yes Yes	
10.000	To assign default flash timer to a DET	5602-1-12KP-1	Yes Yes	
Statistics of the second se	To program flash timer for a truni.	5603-J-Trank Count	Yes Yes	
105,772	To assign default liash timer to a prairs	Sold-1-5 & M.d. cam	Yes Yes	
1992/*** 1910/00/1		1604 J.F.636 B	Yes Yes	
Barbar Ste	Flexible Numbers			
	To program a access code to a SLT since	4301-1-SLT-Actes Code Vor Bold>	2	
1.	To clear a access unde to a SLT stati	3381-7-SI.7-W	Var	5
1. J.	To section default flexible combins to all the S. T statistic	6351-5-4	1	
· · · · · · · · · · · · · · · · · · ·	To program a access code to a DKP station	4302-1-DEP Access Code=#*/«Hold»	1 1	
and the second se	To clear a access code to a DKP state.a	4302-1-DEP #'	1 1	6
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	To clear a access code to a range of D&P stations	4362-2-DEP-DEF-4	Yes	
A CONTRACTOR OF	To assign denaue rescione numbers to 20 the DRCF station.	1200	1	1
21.8.6.8.6	A DECEMBER OF THE OWNER		1	E I
0, 0, 100 50 25 E	R[B]\ 1 /	T		F
Ready	No	selection 🚼	in	Select //
🏽 🛐 🏉 🎲 💽 🛛 🕅	essage Manager 🛛 😹 WinFax PRO Vie	ewer	dl 😽 🍪 🤡	10:47 AM

=X=X=

GPRS (General Packet Radio Service)

What's this?

The General Packet Radio Service (GPRS) is a new, value added service that allows information to be sent and received across a mobile telephone network.

Some important applications of GPRS are Chat, transfer of textual/ visual information, transfer of Still and moving images, Web Browsing, File Transfer.

How to surf the Internet using SIMADO GDT11?

- 1. The GPRS service for the SIM used in the SIMADO GDT11 must be enabled from the service provider.
- 2. Create a connection type.
- 3. Set up a Modem.
- 4. Set up the Dial-Up network.
- 5. Get connected to the New GPRS connection.
- 6. Use the Internet Explorer or Netscape Navigator browser to surf the Internet.

How to program?

(Operating System-Windows 98) Create a connection type

1. Click on Start \rightarrow Programs \rightarrow Accessories \rightarrow Communication \rightarrow HyperTerminal

Matrix



2. Double Click on Hypertrm Icon.



3. A New Connection Dialog Box with a text box for connection description appears.



4. Enter a relevant name in the text box (such as the SIMADO GDT11 connection), choose an icon from the icon list provided and click on **OK** button.



 In the "Connect To" Window, to fill up the 'Connect Using' text box select the relevant COM Port. The rest of the options are disabled automatically. Click on **OK** button.

Connect To	?	×
🧞 SIMADI	O GDT11	
Enter details for	the phone number that you want to dial	:
<u>C</u> ountry code:	India (91)]
Ar <u>e</u> a code:		
Phone number:]
Connect using:	Direct to Com1]
	OK Cancel	

 In the COM Properties Window make the following entries. Bits per seconds=115200, Data bits = 8, Parity = None, Stop bits = One, Flow control = Hardware. Click on OK button.

COM1 Properties	?×
Port Settings	
Bits per second: 115200	
Data bits: 8	
Parity: None	
Stop bits: 1	
Elow control: Hardware	
Advanced	\$
OK Cancel Ar	ylq

 In the HyperTerminal Window click on the Call Menu and then Click on Menu Item Disconnect. The connection type is successfully created.

🍓 SIMAD	O GDT1	1 - 1	lyperTer	minal	
<u>F</u> ile <u>E</u> dit	⊻iew	<u>C</u> all	<u>T</u> ransfer	<u>H</u> elp	
		Lall	 Zali Walt for a C Lop Waltin <u>Disconnect</u>	Heip all g	
	4				
Disconnect	s from the	e rem	iote system		///

Set up a Modem

1. Click on Start \rightarrow Setting \rightarrow Control Panel \rightarrow Modem.



2. Double Click on **Modem** Icon. Modem properties Dialog box opens as shown below. Click on **Add** button:

Modems Properties
General Diagnostics
The following modems are set up on this computer:
Add Remove Properties
Dialing preferences
Dialing from: RVS-COM for ADSL
Click Dialing Properties to modify how your calls are dialed.
Dialing Properties
Close

3. In Install New Modem Window, ensure 'Don't detect my Modem, I will select from a list' is *checked*. Click on **Next** button.



4. Select Standard 33600 bps Modem for Models. Click on Next.

Install New Modem	
Click the manufacturer of or if you have an installe	and model of your modem. If your modem is not listed, ation disk, click Have Disk.
Manufacturers: (VoiceView Modem Types) 3Com 3Com Accton Technology Corpore Accent	Modeļs Standard 14400 bps Modem Standard 19200 bps Modem Standard 28800 bps Modem Standard 56000 bps K56Flex Modem Standard 56000 bps V90 Modem Standard 56000 bps V90 Modem Standard 56000 bps ×2 Modem
	< <u>B</u> ack Next> Cancel

5. Select **COM1** before clicking on **Next** for the next screen. Please ensure that COM1 is the correct communication port.

Install New Modem	
	You have selected the following modem: Standard 33600 bps Modem Select the port to use with this modem: <u>Communications Port (COM1)</u> Communications Port (COM4) Printer Port (LPT1)
	< <u>B</u> ack Next> Cancel

6. The confirmation for Modem installation is received. Click on **Finish** button.



7. Modem Properties Window appears. The newly installed Modem is listed. Click on **Close** button.



Set up the Dial-Up Network

 Click on Start → Programs → Accessories → Communication → Dial-Up Networking.



2. Dial-Up Networking window appears. Double Click on **Make New** Connection.



SIMADO GDT11 System Manual

3. The Make New Connection Window appears. Click on **Next** button.

Make New Connection	×
	Ivpe a name for the computer you are dialing: SIMADO GDT11 Select a device: Standard 33600 bps Modem ↓ Configure
	< Back Next > Cancel

In the Response Window make the following entries. Telephone number = *99#, Country or region code = India (91). Click on Next button.

Make New Connection	×
	Type the phone number for the computer you want to call: Area code: Ielephone number: • *99# Country or region code: India (91)
	< <u>B</u> ack <u>Next</u> Cancel

Country or region code varies from region to region and has to be entered accordingly.

7. The confirmation for New Dial-Up Networking Connection successfully is received. Click on **Finish** button.



8. The new Connection Looks like:



 From HyperTerminal, enter the network's APN (Access Point Name) into the module: AT+CGDCONT=1,"IP","APN" and Enter. The APN Can be obtained from your network operator.



10. Right click on your New Connection Icon. Click on Properties.



 The properties Window appears with General tab active. <u>Ensure 'Use Area Code and Dialing properties' Option is</u> unchecked

General Server Types Scripting Multilink
SIMADO GDT11
Phone number:
Area code: Telephone number:
· **99#
Lountry code:
India (91)
Use area code and Dialing Properties
Connect using:
Standard 19200 bps Modem 🗾
Configure
OK Cancel

 Click on Server Types Tab of the properties window. <u>Ensure</u> that 'Enable Software Compression' is unchecked, 'TCP/ <u>IP' is checked 'NetBEUI' is unchecked</u> and 'IPX/XPS' is unchecked. Click on OK button to close the window.



How to make a Connection of GPRS

1. Right click on your dial up networking Icon. Click on Connect.

🛃 Connect To		?×
	IADO GDT11	
<u>U</u> ser name:		
<u>P</u> assword:		_
	Save password	
Phone <u>n</u> umber:	*99#	
Dialing from:	New Location	Dial Properties
	Connect	Cancel

2. Once the connection is established, the application is automatically minimized and visible on task bar.

SIMADO GDT11	×
Status: Verifying user name and Cancel	
Connection Established	
You are connected to SIMADO GDT11.	
To disconnect or to view status information, double-click the dial-up icon in the status area of the taskbar.	
You can also double-click the connection icon in the Dial-Up Networking folder.	
□ Do not show this dialog box in the future.	
Close More Information	

Use Internet Explorer or NetScape Navigator for browsing the required website.



How to use it? (Operating System-Windows 2000, Windows XP, Windows NT) Create a connection type

1. Click on Start \rightarrow Programs \rightarrow Accessories \rightarrow Communication \rightarrow HyperTerminal.



2. Enter a relevant name in the text box (such as the SIMADO GDT11 connection), choose an icon from the icon list provided and click on **OK** button.



 In the "Connect To" Window, to fill up the 'Connect Using' text box select the relevant COM Port. The rest of the options are disabled automatically. Click on **OK** button.

Connect To	? 🛛	
SIMADO GDT11		
Enter details for I	the phone number that you want to dial:	
Country/region:	India (91) 💽	
Area code:	0265	
Phone number:		
Connect using:	СОМ1 💌	
	OK Cancel	

 In the COM Properties Window make the following entries. Bits per seconds=115200, Data bits = 8, Parity = None, Stop bits = One, Flow control = Hardware. Click on **OK** button.

COM1 Properties	? 🛛
Port Settings	
Bits per second:	115200
Data bits:	8
Parity:	None
Stop bits:	1 💌
Flow control:	Hardware 🗸
	Restore Defaults
0	K Cancel Apply

5. In the HyperTerminal Window Click on the **Call** Menu and then Click on Menu Item **Disconnect**. The connection type is successfully created.

Set up a Modem

1. Click on Start \rightarrow Setting \rightarrow Control Panel \rightarrow Phone and Modem Options.



2. Select the Modem Tab. Click on Add button:



 In Install New Modem window *check* 'Don't detect my modem; I will select from a list'. Click on Next button.



4. Select **Standard 33600 bps Modem** from Models. Click on **Next** for the next screen.

Add Hardware Wizard	
Install Ne w Modem	
Select the manufacturer an have an installation disk, cli	d model of your modem. If your modem is not listed, or if you ck Have Disk.
Manufacturer	Models
(Standard Modern Types)	Standard 19200 bps Modem
	Standard 28800 bps Modem
	Standard 33600 bps Modem
	💐 Standard 56000 bps Modem 📃 🗸
This driver is digitally signed. Tell me why driver signing is imp	Have Disk
	< Back Next > Cancel

5. Select **COM1** before clicking on **Next** for the next screen. Please ensure that COM1 is the correct communication port.

Add Hardware Wizard	
Install New Modem Select the port(s) you want to install the	modem on.
You have select Standard 3360 On which ports C All ports Selected port COM1 COM2	ted the following modem: O bps Modem do you want to install it? arts
	< Back Next > Cancel

6. The confirmation for Modem installation is received. Click on **Finish** button.



7. Modem Properties Window appears. The newly installed Modem is listed. Click on **OK** button.

Phone and Modem Options	? 🗙
Dialing Rules Modems Advanced	
The following modems are installed:	
Modem Attached To	
Standard 33600 bps Modem COM1	
Add Remove Prope	rties
OK Cancel	Apply

Set up the Dial-Up Network

1. Click on Start \rightarrow Settings \rightarrow Network and Dial-Up Connection.



2. Network and Dial-Up Connections window appears. Double Click on **Make New Connection**.



3. New Connection Wizard window opens. Click on the Next button.

New Connection Wizard	
S	Welcome to the New Connection Wizard
	This wizard helps you:
	Connect to the Internet.
	 Connect to a private network, such as your workplace network.
	 Set up a home or small office network.
	To continue, click Next.
	Cancel

 In the response window select Network Connection Type. Click on Next.



New Connection Wizard	
Getting Ready The wizard is preparing to set up your Internet connection.	
How do you want to connect to the Internet?	
Choose from a list of Internet service providers (ISPs)	
Set up my connection manually	
For a dial-up connection, you will need your account name, password, and a phone number for your ISP. For a broadband account, you won't need a phone number.	
O Use the CD I got from an ISP	
< Back Next > Cancel	

5. In the response window Internet Connection Type. Click on Next.

New Connection Wizard	
Internet Connection How do you want to connect to the Internet?	
Connect using a dial-up modem	
This type of connection uses a modem and a regular or ISDN phone line.	
Connect using a broadband connection that requires a user name and password	
This is a high-speed connection using either a DSL or cable modem. Your ISP may refer to this type of connection as PPPoE.	
Connect using a broadband connection that is always on This is a high-speed connection using either a cable modem, DSL or LAN connection. It is always active, and doesn't require you to sign in.	
< Back Next > Cancel	

6. Enter ISP Name in Connection Name wizard. Click on Next.

New Connection Wizard	
Connection Name What is the name of the service that provides your Internet connection?	S)
Type the name of your ISP in the following box. ISP Name	
SIMADO GDT11	
The name you type here will be the name of the connection you are creating.	
K Back Next > Ca	ncel

 In the Response Window make the following entry. Phone number = *99#. Click on Next.

New Connection Wizard
Phone Number to Dial What is your ISP's phone number?
Type the phone number below. Phone number: "93# You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.
K Back Next > Cancel

8. In the response window, **Uncheck** all option of the check box. Click on **Next**.

New Connection Wizard		
Internet Account Inform You will need an accou	nation Int name and password to sign in to your Internet account.	I)
Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)		
User name:		
Password:		
Confirm password:		
Use this account in this computer	ame and password when anyone connects to the Internet from	ı
📃 Make this the defau	It Internet connection	
Turn on Internet Connection Firewall for this connection		
	< Back Next > Ca	ncel

9. The dial-up connection create successfully. Click on **Finish**. Ensure that 'Add a shortcut to my desktop' is enabled.



 From HyperTerminal, enter the network's APN (Access Point Name) into the module: AT+CGDCONT=1, "IP", "APN" and Enter. The APN Can be obtained from your network operator.


How to make a Connection of GPRS

1. Double Click on the shortcut of **SIMADO GDT11** on the Desktop.



2. Connect SIMADO GDT11 window is open. Click on Dial.

Connect SIMA	00 GDT11 ? 🔀
User name: Password:	
Save this us Me only Anyone w	er name and password for the following users:
Dial:	*99#
Dial	Cancel Properties Help

3. Once the connection is established, use Internet Explorer or NetScape Navigator for browsing the required website.



Caution:

If you are having an existing LAN connection, then this dial-up connection will **interface** with your existing connection. Once the connection is initiated it will take over as the "default route" for the majority of your LAN traffic, specifically internet access. It's recommended to disconnect your LAN connection before using the PPP (Dial-up) connection.

If however you want two connections to co-exist, you can use the **route** command to setup routing through the modem properly. Go to the Command Prompt and type **route/?** to find out more, or talk to your System Administrator.

Important Point:

• The GPRS service for the SIM card must be enabled.



SMS (Short Message Service)

What's this?

- The SIMADO GDT11 supports Short Message Services (SMS).
- It allows sending and receiving of messages.
- The SMS received by the SIMADO GDT11 can be read:
 On a computer.
- The SMS to be sent by the SIMADO GDT11 can be edited (written) from:
 - A computer.
- Receipt of a SMS by the SIMADO GDT11 is indicated to the user
 - On the computer.

How it works?

- Received messages (SMS) are stored at various locations in the memory of the SIM card. These locations are referred to as indexes.
- More than one SMS can be received at a time. A queue of 10 new message indications are maintained and the messages can be retrieved as required. In case the 11th message is received, it overwrites the message indication of the first message.
- The indication of a new message in given in form a signal on computer.

How to use it?

Reading the received messages.

- Start the computer.
- Click on Start → Programs → Accessories → Communication → HyperTerminal.
- Double click on HyperTerminal icon.
- You get HyperTerminal window.
- Type AT → in the HyperTerminal Screen (not seen to the user). OK should be seen in response.
- Write AT+CMGR=(Index) ↓

Where,

Index is the index number at which SMS is stored. (The index of the message is displayed when the SIMADO GDT11 indicates

the arrival of a new message).

• After this command, the message will appear in HyperTerminal window.



Entering (Editing) the messages to be sent from the computer

- Start the computer.
- Click on Start \rightarrow Programs \rightarrow Accessories \rightarrow Communication \rightarrow HyperTerminal.
- Double click on HyperTerminal icon.
- You get HyperTerminal window.
- Write AT+CMGS="Telephone Number", (The telephone number is the number to which you want to send the SMS).
- Now key-in the message.
- When the message is completed, press CRTL+Z.
- On successful transmission of the message a dialog box with the message 'OK' pops up.



Deleting the messages from computer:

- Start the computer.
- Click on Start \rightarrow Programs \rightarrow Accessories \rightarrow Communication \rightarrow HyperTerminal.
- Double click on HyperTerminal icon.
- You get HyperTerminal window.
- Write AT+CMGD=(Index) →

Where,

Index is the index number of the message to be deleted.

4	SIMADO GDT11 - Hyp	erTerminal					
E	jile <u>E</u> dit <u>V</u> iew <u>C</u> all <u>T</u> ra	ansfer <u>H</u> elp					
	D 🗲 🔗 🕉 🗈	3					
f							<u> </u>
l	ОК						
l	AT+CMGD=11 OK						
l							
•	onnected 0:01:19	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM	▼ Capture

Important Points:.

- Messages can only be read/edited from HyperTerminal.
- Messages can be deleted one by one, index wise from computer.
- From computer:
 - Messages can be read.
 - Messages can be write/edited.
 - Messages can be deleted.



Voice Services

What's this?

SIMADO GDT11 supports, sending and receiving voice signal to and from remote user of routers like GDT11, GFX11 or Mobile Phone. This feature is called Voice Services.

User has to just connect headphone to the jack provided at rear side of the GDT11 and use AT commands. User can connect handset cable also for sending and receiving voice signal.

Note:

• Do not connect handset and head phone simultaneously(parallel).

How it works?

- The voice signal is received if GDT11 goes OFF-Hook on receiving a display of RING on the HyperTerminal.
- The received signal is routed to head phone and is answered with proper audio gain setting, which is programmable.
- The side tone signal can be minimized by setting level of MIC feedback to speaker.

How to use it?

Audio Signals:

- Before using voice service follow the steps mention below:
 - Select Phone as audio path out of options: Phone or Auxiliary.
 - Set fine tuning of the speaker gain (output path).
 - Set speaker volume.
 - Set fine tuning of microphone gain (input path).
 - Set level of audio side tone.

Initiate Voice Call

- Activate voice call by ATD <string>;
- Dial the number by ATD<n>, from the HyperTerminal. Where n = number to be dialed.
- When called party attends the call, speech is established.

Receive a Voice Call

- When incoming call is for GDT11, RING is indicated on HyperTerminal.
- Enter ATA command on indication of RING.
- Speech is established.
- Terminate the call by ATH command.

How to program?

Create a connection type:

1. Click on Start → Programs → Accessories → Communication → HyperTerminal.



2. Double Click on Hypertrm Icon.

Matrix

📥 HyperTerminal					_ D ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>G</u> o	F <u>a</u> vorites <u>H</u> elp				-
← → → → Back Forward	ta X Up Cut	L Copy	Paste	≌7) Undo	X » Delete
Address 🗀 C:\Program Fil	es\Accessories\Hyp	erTerminal			 Links »
	AT&T Mail.ht C	ompuServe	hticons.dll		
HyperTern	ni	N	мст		
Application	hypertrm.dll	Hypertrm.exe	MCI Mail.ht		
Modified: 4/23/99 10:22 PM	2				
Size: 24KB	test.ht				
	Þ				
1 object(s) selected		24.0KB 🛄	My Computer		

3. A New Connection Dialog Box with a text box for connection description appears.

Connection Description				? ×
New Connection				
Enter a name and choose an	n icon for	the conn	ection:	
<u>N</u> ame:				
<u>l</u> con:				
*	MC	<u>@</u>		% -
		OK	Car	ncel

4. Enter a relevant name in the text box (such as the SIMADO GDT11 connection), choose an icon from the icon list provided and click on **OK** button.

Connection Description	?×
New Connection	
Enter a name and choose an icon for the con	nection:
<u>N</u> ame:	
SIMADO GDT11	
Icon:	
OK	Cancel

 In the "Connect To" Window, to fill up the 'Connect Using' text box select the relevant COM Port. The rest of the options are disabled automatically. Click on **OK** button.

Connect To		? ×
🧞 SIMADI	D GDT11	
Enter details for	the phone number that you want to	dial:
<u>C</u> ountry code:	India (91)	7
Ar <u>e</u> a code:		
Phone number:		
Connect using:	Direct to Com1	•
	Cance	el

 In the COM Properties Window make the following entries. Bits per seconds=115200, Data bits = 8, Parity = None, Stop bits = One, Flow control = Hardware. Click on OK button.

COM	11 Properties				? ×
Po	nt Settings				
					_
	<u>B</u> its per second:	115200		•	
	<u>D</u> ata bits:	8		•	
	Parity:	None		•	
	<u>S</u> top bits:	1		•	
	Elow control:	Hardware		•	
	<u>A</u> dvanced]	<u>R</u> estore	Defaults	
		K	Cancel	Appl	y

 In the HyperTerminal Window click on the Call Menu and then Click on Menu Item Disconnect. The connection type is successfully created.



 Select audio path, using command AT + AUDP = <Path> Where,

<Path> is 0 = for AUX as audio input, AUX ON as audio. output. 1 = for MIC input as audio input, EARN/P as audio. input. *Default path is 0.*

- Select path is 1.
- Set gain of the output path, by fine tuning of the speaker gain, using AT + ARXG = <level> Where.

Level	Gain dB
00	-6
01	-5
02	-4
03	-3
04	-2
05	-1
06	0
07	1
08	2
09	3
10	4
11	5
12	6

By default, Level is 6 (0dB).

 Set the speaker volume level by AT + ARXV = <level> Where,

Matrix

Level	Gain dB
0	Mute
1	-24
2	-18
3	-12
4	-6
5	0
6	Mute
7	Mute

By default, level is 4 (-6dB).



 Set the gain of the input path, by fine tuning of the microphone gain, using command AT + ATXG = <level> Where,

Matrix

Level	Gain dB		Level	Gain dB
00	-12		13	1
01	-11		14	2
02	-10		15	3
03	-9		16	4
04	-8		17	5
05	-7		18	6
06	-6		19	7
07	-5		20	8
08	-4		21	9
09	-3		22	10
10	-2]	23	11
11	-1]	24	12
40	0	1 '		

120By default, level is 15 (3dB).

 Set the level of microphone (input) feedback in the speaker output, by command AT + ASTN = <level> Where,

Level	Gain dB
0	Mute
1	-23
2	-20
3	-17
4	-14
5	-11
6	-8
7	-5
8	-2
9	+1

By default, level is 7 (-5dB).

• It is preferable to set the level = 0 (mute).

🍣 GDT11 - HyperTen	ninal			E				
File Edit View Call Transfer Help								
D 🚅 🍵 🕉 📭 i	🖻 🖆							
AT-Command I AT+ATXG=15 OK AT+ASTN=0	nterpret	er ready			<u> </u>			
ОК								
Connected 0:56:47	Auto detect	115200 8-N-1	SCROLL	CAPS	NUM			

- Originate the voice call by adding semicolon character by command ATD <string>;
- Dial the number by ATD > <n> [;] Where,

n = number to be called.

🎨 GDT11 - HyperTerminal	
File Edit View Call Transfer Help	
D 🛎 🍵 🍒 🗉 🎦 🖆	
ОК	^
ок	
ок	
ок	
ок	
OK ATD <str>; OK ATD9898088710; OK</str>	
<u> </u>	
	>
Connected 1:03:35 Auto detect 115200 8-N-1 SCROLL CAP	PS NUM ,∯

- Incoming call is identified by display RING on the screen.
- Answer the call by ATA command.
- Terminate the call by ATH command.

🇞 GDT11 - HyperTerminal	
File Edit View Call Transfer Help	
D 🚔 📨 🖧 🗈 🎦 🗳	
ОК	^
ок	
ок	
ок	
ок	
RING ATA OK ATH OK	
]	
	>
Connected 3:21:08 Auto detect 115200 8-N-1 SCROLL CAP	5 NUM Ş



Section 3: Appendix

Appendix A: Technical Specifications

System Capacity SIM Connection Communication Port	:1 :1 (RS232C)
Auxiliary Port	: 1 (Audio jack to connect the headphone)
GSM Port	
GSM Type	: Phase 2 + features
GSM Quad Band	: GSM 850, EGSM 900/1800/1900MHz
Frequencies	: EGSM 900: RX=925-960MHz,
	TX=880-915MHz
	GSM 1800 : RX=1805-1880MHz,
	TX=1710-1785MHz
	GSM 1900: RX=1930-1990MHz,
	TX=1850-1910MHz
GPRS	: Class 4
RFpower	: 2W (900MHz) & 1W (1800MHz)
RF Sensitivity	: Better than -102dBm
Antenna Type	: Dipole, Fixed or Roof-Top with Flexible Cable (5 meter [196.85 Inch])
Antenna Gain	: 2.5 dBi
Antenna Connector	: SMA (Female)
RS232C (COM) Port	
Signals	: TX, RX, RTS, CTS, DTR, DSR
Connector	: DB9 Female
Power Supply	
Supply Input	: 8V-14VDC@0.5A. External adaptor (90-265VAC, 47-63HZ) supplied with Matrix SIMADO GDT11
Power Consumption	: 5W (Typical)
Connector	: DC power Jack
LED Indications	: Power Supply, Network

Mechanical Parameters

Dimensions (WxHXD)	: 104x80x27mm (4.09x3.15x1.03Inches)
--------------------	--------------------------------------

Matrix

Weight	: 0.3Kg. (0.66lbs)
Mounting	: Wall Mounting or Table-Top

Operational Conditions

Temperature	: -10°C to +55°C(14° to131° Fahrenheit)
Humidity	: 5-95% RH, non-condensing

Storage Conditions

Temperature Humidity : -40°C to +85°C(-40° to 185° Fahrenheit)

: 0-95% RH, non-condensing



Notes

Programming Register

S.N.	Date	Major Programming Changes made
		-
		5
		0
		- 5