



## SIMADO GDT11

Fixed Cellular Terminal for Data Applications

### The Data Optimizer

Matrix SIMADO GDT11 is a Fixed Cellular Terminal (FCT) for data applications. It is a compact and portable terminal that can satisfy various data communication needs over GSM. It can be connected to a computer with the help of a standard RS232C serial port.

The SIMADO GDT11 offers features like Short Message Services (SMS), Data Services (sending and receiving data files), Fax Services and Web Browsing. Remote login and data file transfer are also supported. It is the perfect equipment for factory plants, resorts, dams and construction sites where wired connectivity is not available or not feasible.

The ready-to-use SIMADO GDT11 can be setup with minimal efforts. It finds its applications in IT companies, Banks and Financial Institutions, Logistic Companies, Service Providers, Remote Project Sites, Professionals, and such other business establishments.



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## KEY FEATURES

### Fax Transmission (PC Fax)

The user can transmit and receive fax through SIMADO GDT11. This helps in sending and receiving fax messages from a computer using fax software like WinFax, Mighty Fax, etc. For this function to work, a separate subscription is required from the GSM service provider who assigns a different number on the same SIM card.

### General Packet Radio Services (GPRS)

The GSM engine used in the SIMADO GDT11 is GPRS Class 10 enabled. It supports Internet browsing and email send-receive using this data packet service provided by the GSM network. When connected with a proxy server, the SIMADO GDT11 allows multiple people to browse the Internet simultaneously by sharing the bandwidth available. For this function to work, a separate subscription is required from the GSM service provider who assigns a different number on the same SIM card.

### Data Communication

The Matrix SIMADO GDT11 can also be used for data communication between two computers. Remote login and file transfer are two of the many possible applications.

### Short Message Services (SMS)

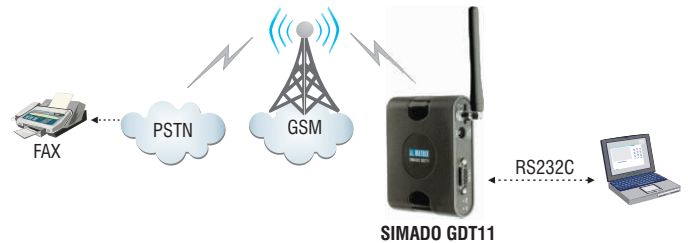
SMS usage is very widespread all over the world. The SIMADO GDT11 can be used as SMS node for individual SMS send and receive requirements. It can also be connected with the enterprise SMS Server for sending and receiving bulk SMS. The SIMADO GDT11 can work with existing SMS application software running on a PC.

### AT Commands Interface

The SIMADO GDT11 offers access to all the standard AT commands provided by its internal GSM engine. This facilitates various novel and customized applications to be built. Remote Monitoring and Controlling, Data Acquisition, Login and Configuration are just few of the endless possibilities.

### Fax Application (PC Fax)

Matrix SIMADO GDT11 finds its application in transmitting and receiving the FAX on computer. Using FAX software utilities like WinFax or MightyFax, user can send or receive the FAX messages on his computer connected to COM (RS232C) port of SIMADO GDT11.



**SIMADO GDT11 for PC FAX Application**

### Data Acquisition Application

Matrix SIMADO GDT11 can be deploy for online data, acquisition SCADA, Remote login, monitoring and controlling devices. Remotely working device data like level, temperature, pressure, flow, density etc., can be captured in real time using SIMADO GDT11.



**SIMADO GDT11 in Data Acquisition Application**

## APPLICATIONS DIAGRAMS

### GPRS Application

Where traditional internet services are not available, GSM network can be used for browsing the internet by using Matrix SIMADO GDT11. Internet connection can be established in no time by connecting computer with COM (RS232C) port provided on SIMADO GDT11. User can surf the internet seamlessly like leased line, if GPRS services is activated from GSM service provider.



**SIMADO GDT11 for GPRS (Internet) Application**

### SMS Application

SMS (Short Message Services) is very popular and cheapest communication tool in GSM network. The SIMADO GDT11 can be used for sending and receiving SMS for varied application like order booking, sales promotional activities, logistic, re-filling of vending machines, FMCG Supply, Ticket bookings, AMR (Automated Meter Reading) and other remote devices which can be controlled by SMS.



**SIMADO GDT11 in SMS Applications**

## SIMADO GDT11



### FEATURES LIST

- Data Services
- Fax Transmission (PC Fax)
- Quad-Band Support
- General Packet Radio Services (GPRS)
- Programming through the RS-232C port
- Short Message Services (SMS)
- Standard AT Commands

### TECHNICAL SPECIFICATIONS

#### GSM Port

GSM Band	: Quad Band: GSM850, EGSM900, DCS1800, PCS1900
Compliant	: ETSI GSM Phase2/2+
SIM Card	: One SIM
SIM Interface	: 1.8V, 3V
Transmission Power	: Class 4 (2W) at GSM 850 and EGSM900 MHz band Class 1 (1W) at DCS1800 and PCS1900 MHz band
RF Sensitivity	: Better than -106 dBm
External Antenna	: 1.8/2.5 dBi, 50W, SMA (Male) Connector, Fixed Omni Directional Swivel Antenna,
FAX	: PC Fax
LED Indications	: Power Supply and Network

#### GPRS

Connectivity	: GPRS Multi-slot Class 10 GPRS Mobile Station Class B
Data	: Downlink transfer: 85.6 Kbps (Max) Uplink transfer: 42.8 Kbps (Max) Supports Packed Switched Broadcast Control Channel (PBCCH)
RS232C (COM) Port	: DB9 (Female)

#### Power Supply

Input	: 12VDC @1.25A Through External Adaptor (90-265VAC, 47-63Hz)
Power Consumption	: 3W (Typical)
Connector	: Casio DC Power Jack

#### Mechanical

Dimensions (WxHxD)	: 8.0x10.5x2.79cm (3.15"x4.13"x1.10)
Unit Weight	: 0.3kgs (0.6lbs) Approx.
Shipping Weight	: 0.8kgs (1.7lbs) Approx.
Material	: ABS Plastic
Installation Mounting	: Wall and Table-Top

#### Environmental

Operating Temperature	: -10°C to +50°C (-14°F to +122°F)
Storage Temperature	: -40°C to +85°C (-40°F to +185°F)
Operating Humidity	: 5-95% RH (Non-Condensing)
Storage Humidity	: 0- 95% RH (Non-Condensing) at 40°C

\* Depends of GSM frequency band

## COMPLIANCES

### EM/EMC

Conducted Emission	: CISPR 22 Class A
Radiated Emission	: CISPR 22 Class A
Harmonic Current Emission	: IEC 61000-3-2
Voltage Flicker	: IEC 61000-3-3
Electro-static Discharge	: IEC 61000-4-2
Radiated Susceptibility	: IEC 61000-4-3
Electrical Fast Transient	: IEC 61000-4-4
Surge	: IEC 61000-4-5
Conducted Immunity	: IEC 61000-4-6
Power Frequency Magnetic Field	: IEC 61000-4-8
Voltage Interruption & Dips	: IEC 61000-4-11

### FCC

Conducted Emission	: FCC Part 15 Sub Part B Class A
Radiated Emission	: FCC Part 15 Sub Part B Class A

### EC Directives

R&TTE 1999/5/EC  
LVD 73/23/EEC  
EMC 89/336EEC

### Safety

IEC 60950-1	: 2001 First Edition
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## GSM PRODUCTS FROM MATRIX

SIMADO GDT11	GSM FCT for Data Applications with 1 GSM Port and 1 RS232C Port
SIMADO GFX11	GSM FCT for Voice Applications with 1 GSM Port and 1 FXS Port
SIMADO GFX11 3G	GSM FCT for Voice Applications with 1 GSM Port and 1 FXS Port with 3G Support
SIMADO GFXD1111S	GSM FCT Router for Voice and Data Applications with 1 GSM Port, 1 FXO Port 1 FXS Port and 1 RS232C Port
SIMADO GFXD1111S 3G	GSM FCT Router for Voice Applications with 1 GSM Port, 1 FXO Port 1 FXS Port and 1 RS232C Port with 3G Network Support
SIMADO GFX44	GSM-FXS Gateway with 4 GSM Ports and 4 FXS Ports
SIMADO GFX44 3G	GSM-FXS Gateway with 4 GSM Ports and 4 FXS Ports with 3G Support
SIMADO GBR21	GSM-ISDN BRI Gateway with 2 GSM Ports and 1 ISDN BRI Port
SIMADO GBR21 3G	GSM-ISDN BRI Gateway with 2 GSM Ports and 1 ISDN BRI Port with 3G Support
SIMADO GBR42	GSM-ISDN BRI Gateway with 4 GSM Ports and 2 ISDN BRI Ports
SIMADO GBR42 3G	GSM-ISDN BRI Gateway with 4 GSM Ports and 2 ISDN BRI Ports with 3G Support

## ABOUT MATRIX



An ISO 9001 Company, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; the company is committed to keep pace with the revolutions in the telecom and security industries. With around 30% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge telecom products like IP-PBX, Universal Gateways, VoIP Gateways and Terminals, GSM Gateways, Access Control and Time-Attendance Systems and Fire Alarm Systems. These solutions are feature-rich, reliable and conform to the international standards. Having global foot-prints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of more than 150,000 customers representing the entire spectrum of industries. Matrix has won many awards for its innovative products.

For further information contact:



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