

**G700**  
GSM/GPRS  
Multi-Communication  
Terminal

- **Mobile Payments and Services**  
Mobile Electronic Banking Terminal  
Virtual Voucher Vending
- **Mobile Communications**  
Mobile Public Call Terminal  
Public Call Management Systems
- **Mobile Identity Verification**  
e-Passport and e-Identity Terminal

# G700 GSM Dual Network Tri Band Mobile Public Call & Multi Application Terminal

With built in Smart Card Reader

**COMTEQ**  
Digital Communication and Banking

## G700 Integral Product Suite



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Versatile, powerful, multi functional and easy to operate – the G700 is designed to bring a whole new dimension of features to the remote terminal.

Capable of operating on any GSM network, this Tri Band GPRS unit opens a new dimension of opportunities that only a versatile mobile device can provide.

When used in conjunction with the powerful proprietary software and application platforms, the G700 becomes the '*end point solution*' that now transforms a number of previously impossible delivery applications in the most remote of locations, into a working reality.

# G700

►► **Community payphone functionality**

►► **Mobile Identity Verification**

►► **Virtual Voucher dispensing**

►► **Electronic Commerce Platform**

## ***BRIDGING THE COMMUNICATIONS DIVIDE IN DEVELOPING COMMUNITIES***

Throughout all continents with their developing nations there are millions of people who cannot afford a mobile phone or fixed landline. This vast untapped market is gradually beginning to enjoy access to telecommunication through programmes like Comteq's Mobile Public Call Terminals (PCT) and Offices. This solution creates a twofold opportunity.

- 1 ►► For micro businesses to develop.**
- 2 ►► Providing consumers with affordable calls that can be made wherever a Comteq Mobile PCT is deployed.**

### **Managed Mobile Public Call Terminal**

Throughout the developing nations of the world, communications provision has been lacking. With the advent of the GSM cellular networks, communication delivery to the masses has increased significantly – but not enough. A second and third tier of delivery is required outside of the large networks basic delivery model. This is where Comteq along with its seven years of on the ground experience in community based communication delivery is unsurpassed.

The G700 terminal and range of management suites is the latest evolution to come out of the Comteq development stable. The G700 takes the basic delivery of telephony services one step further by providing the owner of the Public Call Terminal with a micro business opportunity. For the more entrepreneurial, the G700 Managed Public Call Terminal provides enhanced management capability through its suite of Management Software products, whereby multiple devices can be deployed and managed with ease and effectiveness.

The G700-3 Managed Payphone unit is the pinnacle in state-of-the-art GSM payphones. It is a technology development that is ahead of its time. Its built in Smart Card reader places the G700 in the realm of a Multi Application Terminal that can be used not only for payphone operation; but also for electronic funds transfer and identity verification.

#### **Micro Business Creation**

For the Payphone Entrepreneur it provides future added revenue streams without having to trade up or trade in their payphones. The added versatility offered by its true Dual Sim capability that automatically detects and switches between network operators frees the owner from being locked into one operator only. The added benefit is ultimately to the end user who now gets the best rate available.

The G700 Managed Public Call Terminal is available in two models that cater for the varying needs of the market place -- The G700-2 Basic Timer Function Call Terminal, and the Full Function Managed Call Terminal.



**Supplier of leading Public Call Terminals and Payphone Management systems, Comteq continues to develop value-added applications that revolve around creating micro-businesses.**





## G700-2 Basic Timer Function Public Call Terminal

This system will consist of the basic G700 Phone Unit and the loaded Application Software (Timer based Payphone Firmware)

Units are pre-loaded with the Firmware at the factory before shipping the unit to the client, providing simplicity and out-the-box action.

### Business In A Box

The G700-2 is a simplistic airtime ***business in a box*** with the client needing only the G700 and to insert a charged SIM card/s into the unit, and business can begin immediately.

### Features

- ▶▶ Easy to use with its versatile timer that gives you the option of counting time up ... or counting a preset time down.
- ▶▶ There are no management features or a requirement to configure the phone before use. Simply remove it from the box ... load and GO!
- ▶▶ Automatic detection and switching between network operators (SIM dependant)
- ▶▶ Large easy to read LCD screen that gives you the information you need.  
Call timer; signal strength; date; time.
- ▶▶ Up to 10 hours talk time from the Li-ion battery
- ▶▶ Optional external high-gain antenna for areas where a boosted signal is required
- ▶▶ Optional solar charging unit for areas that have no DC electricity supply.



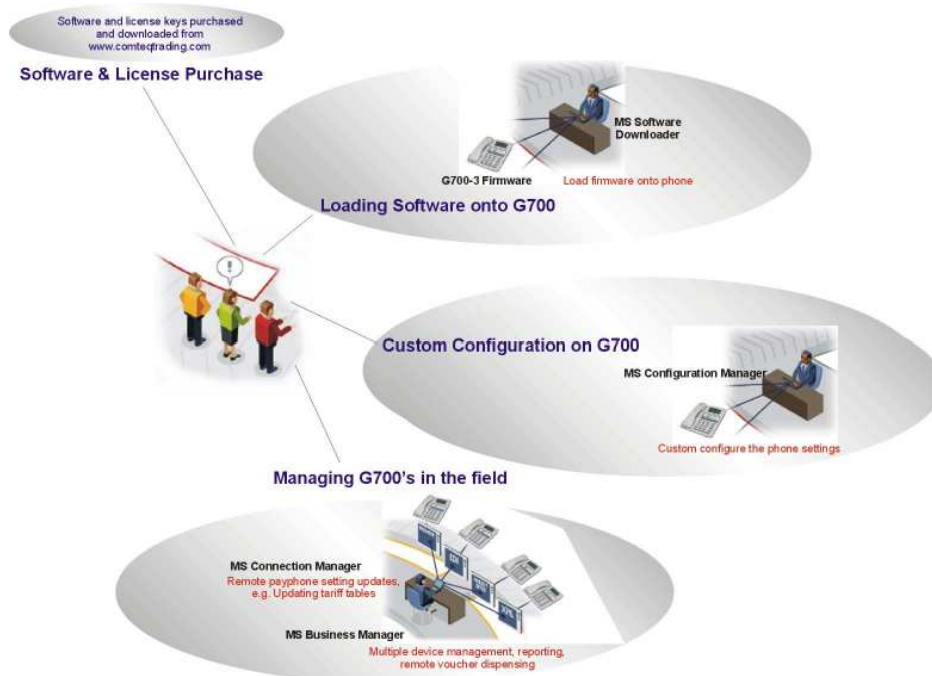
## G700-3 Managed Call Terminal

### The Phone

This unit is the same as the G700-2 with the differences occurring in the software. The G700-3 is loaded with Managed Payphone software obtained from Comteq Trading via its e-commerce portal along with the license keys for each phone unit.

The activation and preparation of the Managed Payphone takes place within three separate phases:

- The loading of the Firmware onto the G700 unit
- Custom configuration of each unit and loading of tariff tables
- Management of the units in the field.



### Back Office Multiple Device Management

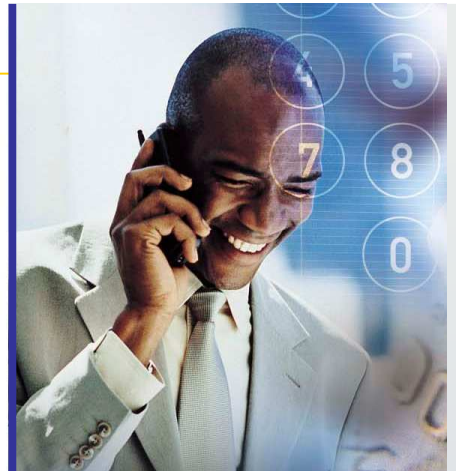
The G700 Managed Payphone System comprises two essential software components – the **Initialization** and **Management** software suites.

#### Initializing Software

- Payphone Firmware

The Firmware is the heart of your G700 Managed Payphone. The Payphone Firmware is purchased from Comteq Trading via its e-commerce portal ([www.Comteqtrading.com](http://www.Comteqtrading.com)) along with the license key that is unique to each phone. The firmware is downloaded onto the G700-3 payphone via the MS Software Downloader.

### Control Centre



Managed Terminal





## **Management Software**

To facilitate the complete process, Microsoft® based software is required to be loaded onto a PC.

### ➤ **MS Software Downloader**

A Microsoft® Windows application required for the downloading of the phone firmware onto the G700 hardware device. See System requirements section for PC requirements.

### ➤ **MS Configuration Manager**

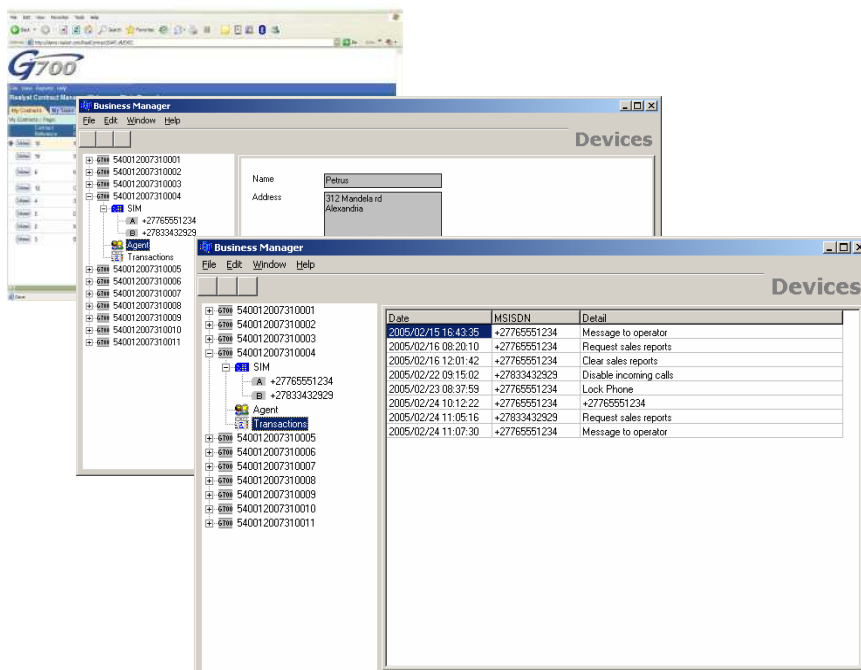
A Microsoft® Windows application utilized to configure each G700 phone to its unique configuration settings per area of operational deployment.

### ➤ **MS Connection Manager**

A Microsoft® Windows application used for remote Managed Payphone setting updates such as tariff tables. This system also requires a GSM modem in order to facilitate the communication between the phone and the management system.

### ➤ **MS Business Manager**

A Microsoft® Windows application for the management and control of multiple devices in the field. Includes financial reporting and remote airtime voucher top-up capabilities.



# Multi Application Terminal

## EFT, Identity Verification, Virtual Vouchers

The unique inclusion of an integrated Smartcard reader within the G700 limits the possibilities only to your imagination. Through custom written software applications on the G700 and Management Software suites, powerful and far reaching applications such as Electronic Funds Transfers, Identity Verification and Virtual Voucher dispensing is made possible on a wider front.

Once the G700 Managed Public Call Terminal is deployed it instantly creates the footprint for many other applications. As each unit is a micro business assert for the owner, any added functionality such as EFT, or voucher dispensing becomes another revenue stream for the owner.

## Banking and Mobile Wireless Payment Application Suites

A large percentage of populations within the developing nations have yet to be reached with appropriate financial services that will afford them the means of participating within the mainstream commercial infrastructures of their countries. Of the barriers that prevent entry into the banking arena for rural and low income earners is the inaccessibility to traditional brick-and-mortar banks, the distance required to travel to these banks as well as the reluctance on the part of the mainstream banks to accommodate these people.

The solution for the banks and greater number of potentially bankable people exists within the realm of 'out-the-box' thinking that ultimately provides geographically far reaching delivery systems that are easily accessible to the masses, and that removes the inhibitive deployment costs associated with financially uneconomical locations.

The solution exists in placing appropriate cost-effective systems and innovative delivery channels that will allow the unbanked masses easy access to Mobile Payment Terminals points.

The concept of taking banking to the outlying communities is another application that is set to take advantage of the flexibility that the wireless GSM platform offers as this is the only medium that can accommodate such an initiative on a widespread and diversified front.



**G-Com Mobile Payments Solutions are based on delivering value-based applications via secure wireless networks, fully integrated management systems and mobile point of use terminals.**

MAT...



# G700-3 Managed PCT

## Product Specifications – (G700-3 Managed PCT)

### G700 Dual Network, Tri band GSM Multi Communicator with Smartcard Capability

#### Functionality

- Multi Function Terminal - retail voice calls, SMS as well as virtual products such as prepaid airtime, electricity vouchers. On-phone voucher storage option.
- Dual SIM facilitates two GSM networks within a single device optimising charges by minimising off network calls.
- Advanced billing software built into the payphone calculates and provides user with a real-time display of the call or SMS cost.
  - Prepaid or post-paid billing options
  - Barred and free number support
  - Three billing periods, each with a unique tariff, facilitate accurate call charging.
- SIM card security - payphone is locked to the SIM cards and the SIM PIN's are never exposed to the agents or supervisor. Individual access PIN's are provided for up to four agents and a supervisor.
- Smartcard with optional Security Access Module supports a range of other revenue generating opportunities e.g. closed user group banking.
- Secure remote management of the G700 is provided by an advanced Management System. The Management System can use three channels to issue commands to the payphone, SMS, GPRS or encrypted codes entered by the agent via the keypad.
- Advanced security protocols to prevent theft, reconfiguration and illegal operation of a payphone by another Service Provider.
- The optional PS2 keyboard can be used to quickly write SMS and it can be used by the agent to add credit for a customer already busy with a call.
- An invoice providing details of the voice calls and SMS is presented to the customer once the credit has run out or the customer has completed the session.
- Independent sales information for reconciling the day's takings is easily available to the agents and the Supervisor.
- Reports and usage data can be regularly transmitted to the Management System to verify that the payphones are operating normally.
- The G700 is simple to customise and configure using the serial cable or remotely from the management system via GPRS.



- Intuitive user interface for the customer who is making a phone call or sending an SMS. A last number redial function is also provided.
- Simple operation reduces operator training time and support requirements.
- Sophisticated payphone management system to control airtime recharge and operation of the payphones in the field.
- In call advertising functionality is available in conjunction with the G700 Ad-server system.
- Lightweight and portable, the G700 is easily carried by the operator to optimum business locations and put into operation within seconds.
- Easily communicate with the payphone agent by sending a "Memo" from the Management System.
- "Demo Mode" can be used for training or demonstration if no SIM cards are inserted in the phone.
- Large branding area available just below the LCD.

## Product Specifications – (G700-2 Timer PCT)

### G700 Dual Network, Tri band GSM Timer Function Public Call Terminal

The Timer Function Public Call Phone is designed as a plug-and-go business in a box. The owner simply removes the phone from the box, inserts a charged SIM card into the G700-2 and is instantly in business.

#### Functionality

- Timer Based Public Call Terminal- retail voice calls and SMS.
- Dual SIM facilitates two GSM networks within a single device optimising charges by minimising off network calls.
  - Timer function that can be activated by the operator to count call duration time up, or count time down from an operator pre-set value.
- The optional PS2 keyboard can be used to quickly write SMS.
- The G700 is simple to bring into full operation – simply insert a charged SIM card, enter PIN and GO.

## Technical Specifications



### Processor and Memory

- 32-bit ARM 7 processor
- 256 KB program storage
- 256 KB for software updates
- 8 K Flash for data storage

### GSM

- Triband: 900MHz/1800MHz/1900MHz
- GPRS Multi-slot Class 10. Class B operation
- Circuit Switched Voice (AMR/EFR/FR/HR)
- Circuit Switched Data (up to 14,400kbit/s),
- Circuit Switched Fax (up to 9,600kbit/s)
- Short Message Service (SMS)
- Output Power 2W, Class 4 (EGSM 900), 1W Class 1 (PCS 1800, DCS 1900)
- Dual 3V or 1.8V SIM support
- Fully type approved GSM module

### Power

- 3000 mAh lithium ion battery
- In excess of 10 hours talk time and 200 hours standby time
- External AC-to-AC 230 VAC, 50Hz – 12VAC, 1000mA wall charger
- Operation from any 12-24 V AC or DC source

### Connectors

- DB9 – RS232
- PS2 keyboard connector
- 2.1 mm power jack
- 2 x RJ11

### Antenna

- Vertically orientated 2dB gain stub antenna
- SMA male connector allows any other SMA antennas to be connected if higher performance is required.

### Display

- 64 x 128 pixel full graphic display
- Maximum 8 lines of 8 pixel font
- Adjustable contrast
- Backlighting

### Plastics

- Durable ABS plastic construction that withstands the harsh African environment.
- Self extinguishing grade ABS

- Sealed connector bay to prevent insect and dust ingress into plastic case
- Spring gate sealing smart card slot

#### **Smart Card**

- ISO 7816 smart card
- One SAM socket for optional on terminal smartcard authentication

#### **Mass and dimensions**

- 1 kg, packed, excluding charger
- Packaged dimensions: 250 mm x 230 mm x 90 mm

#### **Environmental Conditions**

- Operating temperature: 0 Deg C to +45 Deg C
- Humidity : max 85% non condensing
- Storage Temperature : -15 Deg C to +75 Deg C

## **Accessories**

- High gain antenna
- Solar charging unit



## For More Information

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