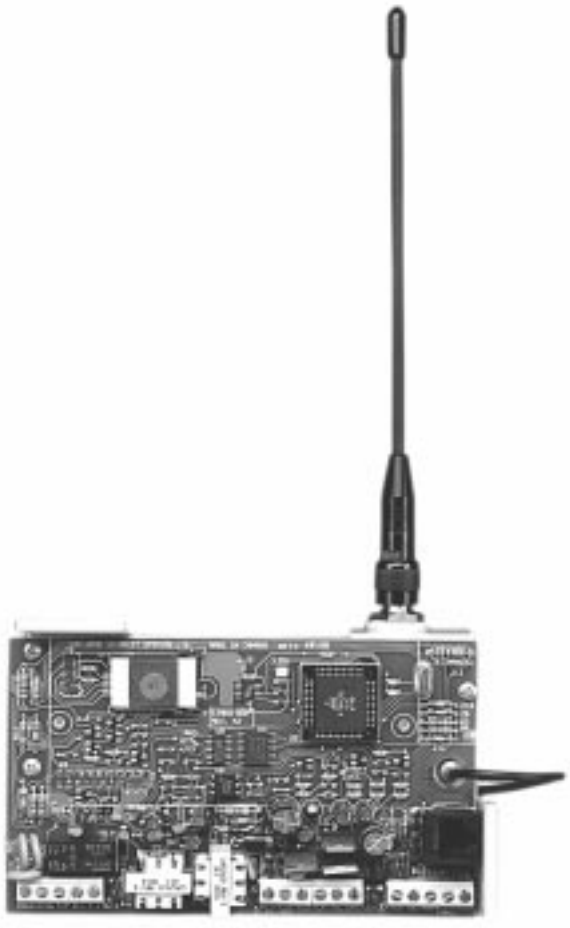
GSM 1000™

WIRELESS COMMUNICATIONS

SG WIRELESS COMMUNICATIONS™

A Division of the SafeLink Corporation



Introduction and Overview

For the GSM 1000™

What is the GSM 1000?

DSC Security Products is pleased to provide to the security industry a new method of communication for the transmission of event conditions. Unlike traditional methods of communication that rely on a copper wire connection, such as regular telephone lines, the GSM 1000 takes advantage of the GSM 900 wireless Mobile Communications Network. The GSM 1000 enables alarm equipment to be remotely monitored in a secure, cost-effective manner by using the existing GSM communications network.

The GSM 1000 therefore offers improved security; it does not use telephone lines and is not subject to sabotage or accidental phone outages when telephone lines are down. Ultimately, the GSM 1000 is used as a backup method to the traditional phone line.

The GSM Network

GSM, Global Systems for Mobile Communications, is a digital cellular radio network presently available in over 200 countries world-wide. GSM networks presently operate in three different frequency ranges, including 900 MHz, 1800 MHz and 1900 MHz. The GSM 1000 operates in the 900 MHz frequency range (GSM 900), the most common in Europe and the world.

The GSM network provides for data communication on the digital voice channel. Since GSM uses radio frequencies, this process is completely wireless. It provides comprehensive coverage in western Europe, and growing coverage in the Americas and Asia.

Product Explanation

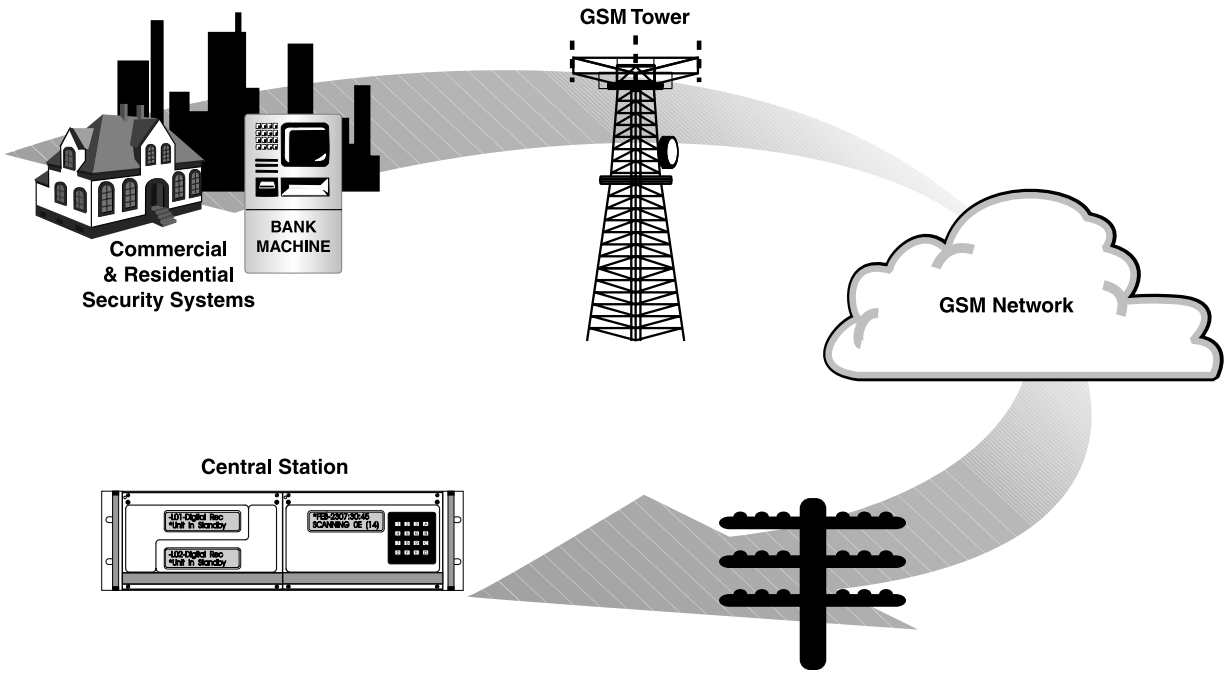
The GSM 1000 Alarm Transceiver enhances the protection provided by a security system; it provides a reliable backup to the control panel's normal telephone communications with the monitoring station. The GSM 1000 works with, and may also be used as the sole means of communications when used with the DSC Power832, Power 608, Maxsys and New Classic Control Panels. If the control panel is unable to complete an alarm transmission through the normal telephone line, due to any line problems, the GSM 1000 will be activated and will automatically transmit the alarm communications over the GSM network. The GSM 1000 also has the ability to support DLS (downloading software) and Downlook, however this is dependent on the GSM network services which vary from area to area.

Product Benefits

The GSM 1000 allows for vital and important alarm signals to reach the Monitoring Station even when the telephone network is disabled.

As the GSM 1000 utilizes the GSM voice channel, a standard option provides for the connection of the "house telephones" onto the GSM unit. When an emergency call needs to be placed the client can connect directly over the cellular network with the Monitoring Station and request help or support.

How The Signal travels to the Central Station



GSM 1000 Wireless Communications

The GSM 1000 alarm transceiver takes advantage of the GSM 900 Mobile Communications Network. The compact transceiver mounts quickly and easily into the existing control panel cabinet improving communication at a reduced installation cost.

The GSM 1000 Module

Features

- Alarm Communications via GSM 900 Mobile Communication.

- Compatible with most DSC alarm panels including…
  Maxsys
  Power832
  New Classic Series

- Easy Installation
  Housed in same cabinet as panel
  Connects to public switch Telephone Network (PSTN)

- Emergency telephone connection

- Fully Programmable via:
  GSM 1000 Programming Module
  PC using Windows Hyper Terminal

- Fully Supervised

- Uses any network-authorized SIM card

- Easy connection to DSC control panels with 9 wires

- No hardware change is required at your Central Station as long as it is compatible with contact ID protocol.

Compatible Alarm Panels

- DSC Power832 PC5010… version 1.0 or later
  PC5015… version 2.0 or later
- DSC Power608 PC5008…version 2.0 or later
- Maxsys PC4010…version 1.0 or later
  PC4020…version 1.0 or later
  PC4020KT…version 1.0 or later
- New Classic PC585…version 2.1 or later
  PC1565…version 2.0 or later
  PC1580…version 1.0 or later (except v1.0U)

GSM Network Specifications

- **GSM 900 Mobile Communication Network Specification Network**
- **Frequency range:** 890MHz to 960MHz
- **Supported communication formats:**

GSM 900

-Contact ID

GSM 900 Phase III Network (Future)

-Contact ID

-SIA

Antenna

- **3 – 5db gain, TNC connector, cabinet or remote control**
- **Extension kits available:**

LAE-1 1m (0.91m) extension kit

LAE-2 5m (4.57m) extension kit

LAE-3 8m (7.62m) extension kit

Supervision and Status Indicators

- **LED supervisory indication of…**
  - Loss of GSM Communications
  - Loss of communication with panel
  - Any trouble condition

Programming

- **Via GSM 1000 PGM Programming Module**
- **Via personal computer and GSM 1000 Programming Cable**
- **Programming capability for:**
  - Emergency phone number
  - Personal Identification Number for SIM card

Power Supply

- **From DSC panel Keybus…**
  - Standby current 60mA @ 12VDC
  - On air current 120mA @ 12VDC Avg.
- **From DSC panel Bell circuit…**
  - Standby current 30mA@12VDC
  - On air current 150mA@12VDC

Physical

- **Dimensions** 5.8" x 3.6" x 3.0" (148mm x 90mm x 77mm)
- **Weight** 1lb (0.5kg)

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A Division of the SafeLink Corporation
401 Magnetic Drive, Units 24-28
Downsview, Ontario Canada M3J 3H9
Tel:(416) 665-0051
Fax:(416) 665-4222
www.sur-gard.com

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