



G.M. Advanced Security Technologies

Dual Comm Communication System





Dual Comm Communication System

"Security Monitoring Perfected"

The DUAL COMM Communication System consists of a dual function communication card that transmits dry contact signals to the DUAL COMM central control panel/receiver.

The DUAL COMM system provides a unique LOCAL alarm monitoring solution. Used extensively for sites protected by any type of Perimeter Intrusion Detection System and Indoor/Outdoor Alarm System.

DUALCOMM = WIRED + WIRELESS COMMUNICATION

The unique DUALCOMM System

The DUAL COMM system's unique feature is its ability to simultaneously transmit WIRELESS AND/OR WIRED communication messages from the DUALCOMM Communication card to the DUALCOMM Control Panel.

The system is user-friendly, and can be operated as a stand-alone system without a computer, or alternately integrated with a local or central computerized monitoring system.

Alarm Message text and Communication Card parameters are easily programmed – no decoding required.

The DUAL COMM System ADVANTAGES

Verified Alarms - The DUAL COMMUNICATION capability is used to verify alarms and back-up the hard-wired or wireless transmission in high security applications.

Save expensive and time-consuming costs of wiring on site.

Complete stand-alone system for installations requiring an independent Alarm Monitoring System.

No Computer or System software required

Who uses DUAL COMM?

- Perimeter Security Applications for military and industrial installations.
- Indoor Alarm Installations in factories, private houses.
- System Integrators providing turnkey solutions in the security field.

DUAL COMM Control Panel

- The DUAL COMM Control Panel integrates alarm signals from up to 256 DUAL COMM transmitter/communication cards, each communication card transmitting up to 8 dry contacts.
- The control panel has been designed for the end-user, with a user-friendly keypad and LCD display and simple management of an events log.

- Emergency warning lights indicate the system status at a glance and smart-key alarm confirmation is provided at different supervised levels of operation for the guard and the supervisor.
- 5 separate relays activated – lights, siren, dialer etc for each transmission message.

Dual Comm Communication Card - Unique Product Features

- Transmits entire alarm message text to the control panel.
- Transmits via wireless AND/OR hard-wired communication.
- Independent transmission from each communication card.
- 1200 m range between transmitters in wired installations.
- Communication Card acts as a repeater in wired installations.
- Transmits up to 8 dry contact inputs.
- Variable transmission power.
- Communication Card Parameters and Alarm Message Text programmed using the GM EN Software.

Technical Specifications

Dual Comm Communication System

DUAL COMM COMMUNICATION CARD

Power Supply
DC Input 10 –20 VDC

Power Output
Minimum 10 MW
Variable power output

Transmission Frequency
433 MHz

RF Output
50 Ω BNC connector

Inputs
8 programmable dry contact inputs
Fast-release connectors

Transmission
Wireless AND/OR hard-wired

Repeater
Communication card acts as a repeater in hard-wired applications (1200 m maximum distance between communication cards).

Cable
RS485 Communication Cable for hard-wired application
Shielded twisted pair communication cable

Tamper Input
Built-in tamper switch on communication card OR connections for external tamper switch

Protection
Fuse for protection against power surges
Protection against incorrect connection 12 V DC

Programmable Parameters
All the parameters of the communication card are programmable using the GM TX software program.
The parameters are programmed via the RS232 serial port.

DUAL COMM CONTROL PANEL / RECEIVER

Inputs
Integrates up to 256 DUAL COMM communication cards

LED indicators
Open Event
Inactive Zone
Communication Failure
Low Battery
Tamper
Emergency Alarm

Key Board
1-9 numerals, # and enter (↵) keys
Info key
Query key

LCD Display
Displays 5 transmitted messages, each message consists of 2 lines on the LCD screen

Memory of events
Last 200 messages saved

Events Log
Sort and query of events of log

Printer output
Printer output plug

Relays
5 internal relays

Smart key socket
For transmitter message acknowledgement

Smart key
Guard and Supervisor security levels

Output
Command and feeding cable connector

Dimensions
300 x 180 x 70 mm

PROGRAMMING FEATURES

Programmable Parameters
All the parameters of the communication card are programmable using the GM TX software program.

Transmitter message text and definition of messages

- Transmits TEXT messages (maximum 30 characters), which are entered using the GM TX software program.
- Separate text messages are entered for NORMAL or WARNING state for each of the 8 inputs (1 – 8).
- Separate text messages are entered for LOW BATTERY and TAMPER indications.
- PRINT output for each message (On/Off)
- Emergency Light (On/Off)

Definition of the state of each dry contact input

Inputs 1 – 7	N.O. or N.C.
Input 8	N.O. or N.C. and definition of input type as normal input or vibration sensor input

Programmable Transmitter Parameters

- Transmitter (communication card) name and ID
- Minimum battery voltage
Warning retransmission time for open events
- Number of retransmission messages for open events
- Communication warning time period
- Number of transmissions during warning time period
- Algorithm to prevent repetitive alarms (cycle warning prevention)

Print Preview and programming
Preview all programmed parameters prior to transmitter programming

Relays
5 separate relays can be set for each transmission message

State of relays

■ Idle	■ Pulsed
■ Armed	■ ON
■ 5 Seconds	■ OFF
■ 30 Seconds	



G.M. Advanced Security Technologies

14 HaTa'as st. P.O. Box 2327

Kfar Sava Industrial Area 44425 Israel

Tel: +972-9-7662965

Fax: +972-9-7662964

Email: info@gmsecurity.com

www.gmsecurity.com