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ARDC™

GPRS COMMUNICATION

RDC makes it powerful but simple for you

GPRS alarm communication offers a number of advantages to modern day security companies. Communication is bi-directional and coverage is only restricted by the network provider's footprint. This is ideal for companies requiring national or even international coverage and monitoring. Full Contact ID communication is supported and open up/lock up signals can be freely monitored. RDC's GPRS communication offering incorporates all the features needed by the industry while making it as simple as possible for customers to use the products.

GTXConnect*

GTXConnect is a web based portal that makes RDC's GPRS based communication system more powerful than any other system on the market. Users have remote access to program, control and download logs from the transceiver units in the field. Various access levels allow only the appropriate features to be available to security company technicians and end users. SIM activations, user accounts and access levels are managed through a simple and easy to use interface.

Control functions can be offered to end users as value added or chargeable services. End users have access to a generic branded web interface to access the control functions. The interface can be linked from the customer's own website and no RDC branding is present.

The best possible backbone infrastructure

The best possible providers have been selected to securely host the backbone systems for international access, with all the necessary power, fire and natural disaster protection.

Powerful base station capabilities

The C-20 GSM base station features a colour touch screen and an abundance of onboard processing power. In fact, the base station is able to receive in excess of 100 signals per second using a standard GPRS connection. The unit also has a variety of connection and redundancy options with automatic swap over capabilities.

Chip SIMS*

The issues around managing standard SIM cards can be avoided by using chip SIMs which are integrated onto the PCB of our G-TX transceivers. SIM card theft and abuse is avoided and the lifespan of the SIM is greatly increased.

SIM and contract management*

Using the cellular networks to send security data involves SIM cards and contracts with the networks. RDC takes care of the SIM cards and contracts and keeps track of everything. Simply order the hardware and the rest is done for you.

Month to month contract*

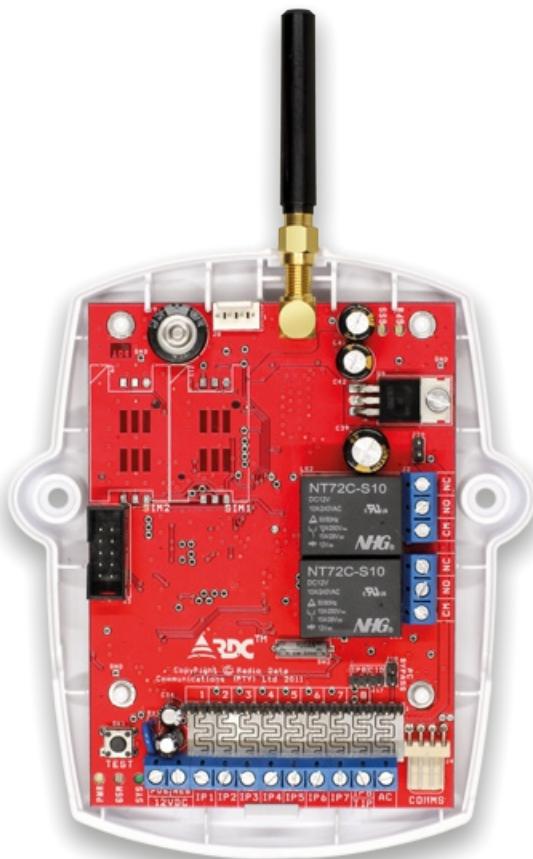
A simple monthly contract covers the network contract/s, data and use of the secure infrastructure. RDC doesn't bind customers to the standard 24 month network contract and GPRS users can cancel at any time with one month's notice.

Activate and start paying as and when you need to*

G-TX transceivers can be ordered in an activated state for immediate operation. Units can however also be ordered through a preferred distributor or kept on the shelf. When ready, customers can request activation of their units via the GTXConnect web portal.

Easy for technicians to learn

The GPRS products have been made as similar as possible to the well known VHF versions, making them simple for technicians to install and operate.



* Features and/or services may not be available in all countries or where standard SIM cards are used.



Online Portal

User Levels Information

The GTXConnect user levels are designed to allow full access to installers as well as limited control functions to end users. The control functions can be sold on by installers to the end users as value added services. The account holder is granted user level 1 access.

User Level 1

Generally intended for the account holder, technical staff and installation technicians and allows access to the following functionality:

Manage the account and users

- Edit account details
- Add, edit and delete sub users
- Manage sub user access levels
- Enable access to units for sub users

Manage G-TX units remotely

- View and change unit settings/programming
- View unit status
- Control on-board relays

View logs from the unit & server

Manage activations

- Request unit activations
- Request unit deactivations

User Level 3

Intended to allow end user access to control on-board relays for opening gates etc., but no access is granted to view signal logs. Users on this level can also add sub users (e.g. other family members). Access is granted for the following functions:

Manage the account and users

- Edit account details
- Add, edit and delete sub users
- Manage sub user access levels
- Enable access to units for sub users

Control onboard relays

- Define the control button labels
- Request relay status
- Reset units

User Level 2

Intended for general end user access. The end user can operate the on-board relays to open gates etc. and view signal logs. Users on this level can also add sub users (e.g. other family members). Access is granted for the following functions:

Manage the account and users

- Edit account details
- Add, edit and delete sub users
- Manage sub user access levels
- Enable access to units for sub users

Control onboard relays

- Define the control button labels
- Request relay status
- Reset units

View logs from the unit & server

User Level 4 - International

Intended for international accounts where standard SIMs with dynamic IP ranges are used. The account holder, technical staff and installation technicians have access to the following limited functionality:

Manage the account and users

- Edit account details
- Add, edit and delete sub users
- Enable access to units for sub users

Manage G-TX units remotely

- Change unit settings/programming on the server

View logs from the server only

PLEASE NOTE:

Programming changes on this level can only be set on the server. For the units to adopt these settings, the unit must either be powered up or be requested to update its settings using an SMS command.

Adding Sub Users

As a general rule, users can add, edit or delete sub users on the same or lower access level. e.g. The account holder can grant full access to the company's technical manager and installation technicians. It should however be noted that these users have access to all functions.

The account holder can also grant access to end users with limited access to functions. e.g. A security company can grant access to an end user to control the on-board relays. The relays could be used to open and close a gate, or arm and dis-arm a control panel. The

security company can decide if they allow the end user access to signal logs.

The end user, in turn, can add sub users that are associated with their device. e.g. A home owner can add family members and a domestic worker who also need access to the functions.

NOTE: Caution must be exercised when granting access (particular for level 1 access). Please see Terms and Conditions and Warnings.

GUARD-PACK

The Guard-Pack is designed to assist guarding companies deliver a reliable service to their clients, whilst keeping the cost of electronic monitoring to a minimum. The system incorporates a GPRS transceiver to ensure seamless and cost effective communications. Guard-Packs can be installed and/or monitored from anywhere within the cellular network provider/s coverage. Comprehensive hardware monitoring and reporting means that the control room knows immediately when there is an issue with the unit or when the unit is being tampered with.

Features

- Self-posting guards are remotely monitored
- Timer keeps guard awake and reports failure to respond
- Timer reminds guard to start a patrol
- Reports patrol activity to control room
- Supervisor can be notified when needed without additional hardware or cost
- Local and remote panic button reports to control room
- Unit and server events logs can be uploaded via the GTXConnect web portal*
- Comprehensive unit status and tamper monitoring (periodic self test every 60 minutes, lid tamper and vibration sensor)
- Unit power monitoring and reporting (power up, AC fail/restore & battery low/restore)

Guard on Duty

Pressed when the guard arrives on duty. A timer is activated which triggers a buzzer every 30/60 minutes to keep guard awake.

Tele 1 signal is sent.

Start Patrol

The buzzer sounds every 30/60 minutes once the Guard on Duty button has been pressed. On hearing the buzzer, the Start Patrol button is pressed to report that a patrol has been started and to silence the buzzer.

Tele 3 signal is sent.

Panic

Pressed in panic situations to request immediate assistance. Panic signals can also be sent using the remote panic key-fobs.

RDC Panic signal is sent.



Guard off Duty

Pressed when the guard's duty is completed. The 30/60 minute timer/buzzer operation is deactivated.

Tele 2 signal is sent.

End Patrol

Once the guard has completed the patrol, this button is pressed to report that the patrol has ended.

Tele 4 signal is sent.

Call Supervisor

Pressed to inform the control room that the guard on site needs assistance from the area supervisor.

Tele 5 signal is sent.

Lid tamper

RDC Alarm signal is sent.



Panic remote key-fobs

Up to 4 remote key-fobs can be carried by the guards on patrol which can be identified in the control room by a unique telemetry.

Contact ID Panic (120) zones 1,2,3 & 4 signals are sent.

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C-20

GSM Base Station



The RDC C-20 GSM base station has been designed to accommodate the unique requirements of security monitoring.

Dual SIM cards in base station

As with the G-TX transceivers, the C-20 base station accommodates two SIM cards to ensure two independent GSM network connections.

Dual private APNs*

The system is able to operate using private access point names (APNs) on two service provider networks. This separates alarm signals from other general traffic on the GSM networks.

Ethernet or GSM connection to server

The base station can connect to the server either via ethernet or GSM (GPRS, EDGE, HSDPA). This means that signals can be received in the control room via any leased line connection or via the GSM network. In case of connection failure, connections will automatically switch over.

Touch Screen Display

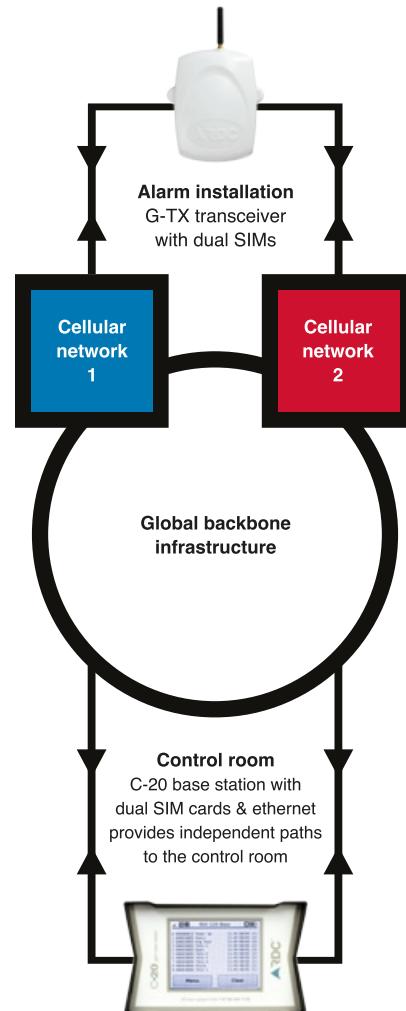
The 320x240 TFT touch screen display with virtual keyboard allows for easy user input. The display is password protected to avoid misuse.

Abundant processing power and memory

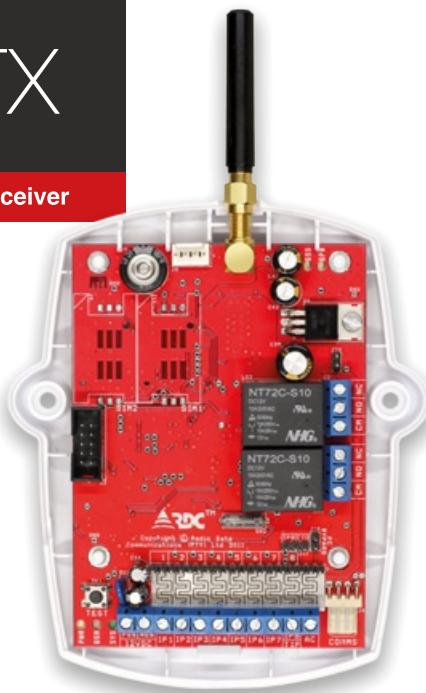
The C-20 has enough processing power to receive over 100 signals per second with a standard GPRS connection and enough memory to keep an event buffer of over 200 000 events.

Features

- Ethernet or GSM connection to server
- Automatic switch over between ethernet and GSM
- Dual SIM redundancy on GSM
- Touch screen display with virtual keyboard
- Can receive over 100 signals per second
- Event stack for 200 000 events



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Chip SIMS*

Units can be supplied to accommodate standard SIM cards or chip SIMs. The integrated chip SIMs avoid SIM card theft and abuse, and the lifespan of the SIM is greatly increased.

Dual SIM redundancy

The system roams from one service provider to another in the event of a GSM network outage.

Full extended data reporting

Full Contact ID reporting is supported via the telephone interface as well as via the serial connection to compatible alarm panels. Full user, zone and partition reporting is supported.

Alarm communication and home automation

A single unit provides alarm signalling as well as simple home automation in one unit.

Remote firmware updates*

When features are added or new firmware versions become available, these can be updated remotely.

Download transceiver event logs*

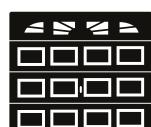
Download unit event logs without having to go to site.

Extended footprint

The system can be installed and/or monitored from anywhere within the cellular network provider/s coverage.

Simple home automation

Control a gate or garage door, or switch lights on and off remotely by SMS or via the GTXConnect web portal.



Features

- 9 Hardwired inputs, Contact ID and serial connections
- 2 Onboard relays for simple home automation
- Single or dual SIM for redundancy
- Web-based remote programming and control of relays*
- Remote event log downloads*
- Anti-tamper vibration sensor

Serial interfaces

DSC

iDS805s 

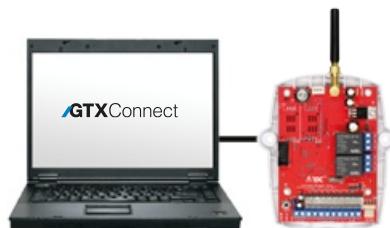
P ▲ R ▲ D O X

RISCO  **LightSYS**

Texecom

GTXConnect

Program and control G-TX units in the field using the GTXConnect web portal*.



G-TX Pack

Also available in a G-TX Pack form.



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Specifications

GSM Technology

GSM

Frequency bands	Dual band (GSM 900MHz/1800MHz)
Output power	Class 4 for EGSM900, Class 1 for GSM1800
Data transfer	GPRS, Multislot Class 8
Engine	BGS2-E/BGS2-W Cinterion

Power consumption

Standby	1.08Watt (0.09mA @ 12V)
Data mode (GPRS)	1.92Watt (160mA @ 12V)
Input voltage	9Vdc(min) to 25Vdc(max)

Physical

Dimensions	140mm (without antenna) x 100mm x 30mm
Mounting	2 x 4.7mm holes on the enclosure
Weight	165grams

Input and output specifications

Inputs	Positive trip +2.7V to +30V Negative trip -0.5V to +0.5V
Outputs	10A @ 250Vac max 10A @ 28Vdc max

Input and output connections

Inputs	- 9 Hardwired screw terminal inputs (Input 9 shared with CID input) - 1 AC fail screw terminal input - TTL serial communications connector - Engineer test button
Outputs	- 2 Relay screw terminal outputs (CM, NO, NC)

Operation

- Inputs programmable for low level, high level and edge triggers (should the input change its state from high to low OR low to high, it can generate a trigger)
- Internal pull-up resistors for negative trip eliminates the need for external resistors
- Full CID support and reporting
- Programmable mains fail and restore report time (up to 18 hours in 1 second intervals)
- Power-up, power-fail and power restore reporting
- Disable power reporting (disables AC power fail and restore reporting)
- Serial interface (Alarm panel support: DSC, IDS805s & X64, Paradox, Risco LightSYS, Texecom)
- Programmable vibration switch sensitivity
- Disable tamper reporting
- Programmable update and self-test period (up to 45 days in 1 minute intervals)
- Programmable alarm input delay (up to 18 hours in 1 second intervals)
- Can operate from single or dual SIM
- Two APNs programmable per SIM
- Two reporting servers programmable for the unit
- Messages can be routed to up to 10 base stations from the server
- Eight character server password unique to the unit
- Low battery reporting
- 3 LEDs indicate different states
- Event buffer for up to 100 events downloadable via remote interface
- Remote interface for status request and relay control
- Chip SIM capability

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