Redcare GSM Roaming
Technical product information

Redcare GSM Roaming protects customers with a grade 4 dual path alarm signalling system that uses BT's trusted Redcare network.

The dual path system uses both a phone line and mobile phone technology, to give your customers the highest and most effective level of protection they can buy.

LPCB

LPS 1277: Issue 3
Cert No. 1270a

Key features

Continuous monitoring of a phone line
This ensures that a line fault or line cut affecting the Redcare GSM Roaming service is reported to the ARC in 40 Seconds.

Alarm signalling even if the phone line is busy
Redcare GSM Roaming doesn't need a dedicated phone line.

The secondary path uses the mobile network
Should the phone line fail, the mobile network path is primed and ready to go.

Intelligent roaming SIM
Redcare GSM Roaming selects the best available UK mobile network. If it becomes unavailable, the roaming SIM will automatically select the next best network.

No extra call costs
No added charges are applied for communication between the alarm and the BT Redcare network.

Third-party certification
Redcare GSM Roaming has crucial third-party certification for Alarm Transmission Systems (ATS).

Redcare GSM Roaming	
Both paths working, PSTN path fail: fault reporting	40 Seconds
Both paths working, radio path fails: pin 8 fault reporting	3 Minutes
Only radio path working and it fails: fault reporting	3 Minutes
Only PSTN path working and it fails: fault reporting	40 Seconds
Both paths failed simultaneously: 1st fault reporting	40 Seconds
Both paths failed simultaneously: 2nd fault reporting	3 Minutes 30 Seconds
Continuous monitoring using Low Tone?	Yes
Polling frequency	2 Minutes
Signalling encryption	Redcare Proprietary Signalling
GSM availability	99.95%
GSM frequency	900/1800Mhz
EN GRADE	4
ATS VALUE PRIMARY	5
ATS VALUE SECONDARY	4
LPS 1277 3.0 certification	Cert No. 1270a

Highlights

- Redcare GSM Roaming has third-party certification to Loss Prevention Standard LPS 1277 for Alarm Transmission Systems (ATS).
- No call charges
- No additional cost for a new phone line. It works on an existing phone line (BT phone lines as well as those provided by BT Openreach and other Communication Service Providers) or broadband connection (including BT Infinity) without the need for a broadband filter.
- Compliant with British and European Standards for intruder alarms
- Fully compliant and is able to send confirmed intruder signals
- Continuous monitoring and fast alarm signalling using Redcare's non dialling technology
- Fully compatible with BT's Fibre To The Cabinet Network

Signalling details

- Primary path phone line signalling via non dial up BT PSTN connection
- Continuously monitored transmission path using low tones
- Secondary path can use any of the UK mobile phone network providers
- Alarm messages and polling are highly encrypted to EN grade 4 using BT Redcare proprietary encryption
- Software and firmware anti-substitution measures to EN grade 4
- End to end alarm acknowledgement from ARC to STU
- Unit and service faults are self-reported
- Full integration with Redcare ARC Gateway

Management features

- Remote testing, polling, status and configuration as per BT Redcare protocol
- Simplified installation and service activation

Alarm panel interfaces

- Parallel inputs (pins)

About the Redcare GSM Roaming unit

- Optional mounting in secure wall fitting or within alarm panel
- Simple two wire connection to PSTN line
- Ambient temperature: +5°C (41F) to +40°C (104F)

Power specifications

Voltage:
10.3V DC to 15V DC

Current:
Average 80mA mean
Peak 350mA

Ripple/noise:
200mV p-p max

Low Battery Threshold:
10.8V +/- 0.2V

- Screw terminals or plugged in
- Low battery alarm reporting to ARC

General purpose inputs and outputs

- Ten general purpose alarm inputs plus tamper and AC fail. (Logic High = +3.5V to +30V / Logic Low = -0.5V to +2.5V)
- Unconnected state: Logic Low
- Screw terminals or via plug in molex connectors
- Line fault output - for status indication at site of alarm signalling paths
- Return path signalling - for confirmation at site of opening and closing
- Control output - for remote control of site devices
- BSIA F175 enabled

Status indicators

- Via 8 segment LED's

Size and weight of unit

- 168mm x 115mm x 36mm, 270g

Configuration

- Via "pin learn" feature or 2 button on-board programming 8 segment LEDs

Warranty

- The Redcare GSM Roaming unit has a 60 month warranty

Compliance

- Certified to LPS 1277 3.0 for Redcare GSM Roaming. See table overleaf for more information
- PD6662: 2010 scheme for EN standards in I&HAS
- EN50131-1: Alarm systems. Intrusion systems
- EN security standards. Environmental Class I
- REN value 1

BT

To find out more about Redcare GSM Roaming:

call us free on **0800 800 628***
email **redcare@bt.com** or visit us at **www.redcare.bt.com**

* Calls are free to this number from BT landlines and BT payphones. However, they are not free to call from mobile phones – the costs will vary between service providers.