With the advent of the IP revolution, consumers are increasingly leaving behind standard PSTN telephone lines. Instead, they are either moving to broadband-based Voice over IP (VoIP) or using their mobile phones as their sole communications channel. As a result, security systems are disconnected from central alarm stations without prior notification.

Over time, it has become clear that GSM is the best alternative to PSTN telephone lines for alarm system connectivity. However, the GSM voice channel, currently used by many alarm systems, has proved unreliable and costly for data communications. And, the reliability of the SMS channel, which is used by many other systems, has proved to be far from satisfactory. This leaves GPRS as the only cellular technology that is both cost effective and suitable for data communications.

The Visonic GPRS solution is the most comprehensive and reliable cellular solution on the market. It is based on the internal PowerMaxPro and PowerMaxComplete GSM modules and incorporates new software so that the control panels support GPRS functionality. This solution transmits events over GPRS, but also facilitates event transmission over GSM voice and SMS channels in case of GPRS network failure. In addition, it includes advanced features such as two-way voice communication, SMS control and notifications, and IP-based remote programming.
Features and Benefits

- Based on the internal GSM modules of PowerMaxPro, PowerMaxComplete and PowerMaxExpress
- Internal redundancy of GPRS, GSM and SMS - ensures maximum reliability in delivery of events to the central alarm station
- Easy to configure and install
- Built-in diagnostics for the GPRS functionality
- Full encryption of GPRS messages
- Option of opening a two-way voice channel to the premises
- SMS event notifications to up to 4 private users
- Built-in SMS control interface
- Enables GPRS-based remote programming of the control panel*
- Fully supervised by the IPMP receiver at controllable periods
- Fully compatible with the Visonic IPMP Platform

Certifications & Approvals

- Europe: EN 301511 Global System for Mobile Communications
  EN 50361 Measures possible harmful effect of RF on the human body
- USA: CFR 47 Part 22, Part 24 & Part 15

Specifications

- Technology: GSM Quad Band with GPRS and SMS
- Current Consumption:
  - Stand-by (GSM Idle): up to 22 mA
  - Operating current consumption in voice/CSD channel: up to 200 mA
  - Operating current during GPRS transmission (class 10): up to 370 mA
- Antenna: Internal (external antenna is optional)
- Data Encryption: AES 128bit
- GPRS Notification Protocol: SIA over IP**
- GSM Notification Protocol: Contact ID or SIA
- SMS Notification Protocol: Contact ID

* Requires the Visonic IPMP Platform
** Tested with the Visonic IPMP Platform