

## GSM Smart Alert Gateways, Model SA40 Series



Remote Monitoring, Remote Diagnostic and Predictive maintenance is the need of the hour. System upkeep time is vastly improved if the key decision makers are immediately alerted on failures occurring in a system. Change in process conditions like increase or drop in Temperature, Pressure, Flow etc or a Solenoid valve / circuit breaker trip or a forced entry in your house can be alerted via SMS

SAN designed a 2G/4G based embedded Alert system with multiple Analog / Digital Input & Digital Output catering to various applications

## General Specifications

- Quick SMS alerts from field inputs
- Allows upto 4 Digital potential free inputs with common ground pin
- Supports upto 2 potential free outputs to be controlled via SMS
- For every input, unique SMS and prerecorded voice message can be sent to reporting numbers
- 10 numbers for SMS reporting and 10 separate numbers for voice reporting can be configured
- Voice reporting numbers can be landline or mobile numbers
- 16 seconds voice message recording for each input
- Voice message recording through mobile phone call
- Periodic update of Digital inputs status as Normal or Alarm via SMS
- Buzzer for audible status
- Configuration via preformatted SMS



## Cellular Specifications

- High Performance Quectel Module
- **Band:**
  - SA40/SA42/SA40V/SA42V:**  
GSM 850/900/1800/1900MHz
  - SA8-40/SA8-42/ SA8-40V/SA8-42V:**  
(For India only)  
LTE FDD B1/B3/B5/B8  
LTE TDD B38/B39/B40/B41  
WCDMA: B1/B8  
TD-SCDMA: B34/B39  
CDMA: BC0  
GSM 900/1800MHz

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#### **Bandwidth:**

##### **SA40/SA42/SA40V/SA42V**

Max. 85.6kbps (Uplink & Downlink)

##### **SA8-40/SA8-42/ SA8-40V/SA8-42V:**

LTE FDD-Max.150Mbps (DL) & Max. 50Mbps (UL)  
LTE TDD- Max 130Mbps (DL) & Max 35 Mbps (UL)  
DC-HSDPA – Max 42 Mbps (DL)  
HSUPA- Max 5.76 Mbps (DL)  
WCDMA-Max 384Kbps (DL)/Max 384 Kbps (DL)  
TD-SCDMA: Max 4.2 Mbps (DL)/Max 2.2 Mbps (UL)  
EVDO: Max 3.1 Mbps (DL)/Max 1.8 Mbps (UL)  
1x Advanced: Max 307.2 Kbps (DL/UL)  
EDGE: Max 296 Kbps (DL)/Max 236.8 Kbps (UL)  
GPRS: Max 107Kbps (DL)/Max 85.6 Kbps (UL)

- Output Power : < 35 dBm
- Sensitivity : < -110 dBm
- Control via AT commands (GSM 07.07 and 07.05)
- GPRS multi-slot Class 12/10/8
- CSD up to 14.4 kbps for GSM
- USSD, TCP/UDP protocol, PPP Stack, FTP/HTTP

#### **Technical Specification**

- Digital Inputs : Upto 4 no's, Potential free
- Digital Outputs : Upto 2 no's, Potential free
- Terminals : Screw type connector
- SMS : 160 Characters

#### **Indications**

LED Indication : 3 LEDs for network strength, 1 Power ON LED  
: 4 LEDs for each Input  
: 2 LED's for outputs

#### **Accessories**

Antenna : SMA Connector. High gain antenna available as option  
SIM & Holder : Push Type  
Power supply : +12V DC. Screw type Terminals  
Optionally, 230 AC Power adapter. 12V DC, 2 Amp  
Power consumption : 2W

#### **Environmental Conditions**

Operating Temperature : -35° to 80°C  
Relative Humidity : 90 % Rh non condensing

#### **Mechanical**

Enclosure : Metallic Enclosure with DIN rail mounting  
Dimension : 121x 65 x 38 mm for enclosure (Excluding antenna)

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### Ordering Information

Ordering Part number	Description
SA40	4 Digital Input, No output, SMS only (2G)
SA42	4 Digital Input, 2 output, SMS only (2G)
SA40 V	4 Digital Input, No output, SMS & Voice (2G)
SA42 V	4 Digital Input, 2 output, SMS & Voice (2G)
SA8-40	4 Digital Input, No output, SMS only (4G)
SA8-42	4 Digital Input, 2 output, SMS only (4G)
SA8-40 V	4 Digital Input, No output, SMS & Voice (4G)
SA8-42 V	4 Digital Input, 2 output, SMS & Voice (4G)

**Note: 4G model is for Indian frequency bands only. For usage of 4G model outside India, please contact San Telequip office.**