

GSM/GPRS Smart Alert Gateways, Model SA M / SA ME / SA8 MVE



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 immediately alerted via SMS/Email

SAN designed a GSM/GPRS based embedded Alert system catering to various applications

SA M extracts Alarm conditions from Modbus port & relay them as SMS. SA ME model supports SMS and email for reporting alarms.

General Specifications

- Quick SMS/Email/Voice alerts from field inputs
- RS485 interface with Modbus RTU support
- For every input, unique SMS and prerecorded Voice message or email can be sent to reporting numbers
- 10 numbers for SMS reporting and 10 separate numbers for voice reporting can be configured.
- 10 email IDs can be configured for email alerts.
- Voice reporting numbers can be landline or mobile numbers
- 10 seconds voice message recording for each low and high Modbus alert
- Voice message recording through mobile phone call
- Buzzer for Audible status
- Periodic and pre-configured real time update of Modbus inputs to all SMS reporting numbers.
- Status of all Modbus inputs with instantaneous value can be read at any time by sending SMS.
- Low and High alert message text is configurable and max 30 bytes.
- Configuration via preformatted SMS.
- Built in RTC

Cellular Specifications

- High Performance Quectel Module
- **Band:**
SA M/SA ME:
GSM 850/900/1800/1900MHz

SA8 MVE:
(For India only)
LTE FDD B1/B3/B5/B8
LTE TDD B38/B39/B40/B41
WCDMA: B1/B8
TD-SCDMA: B34/B39

San Telequip (P) Ltd.,
504/505 Deron Heights, Baner Road, Baner
Pune 411045, Mah, India
Phone : +91-20-27293455, 9764027070, 8390069393
email : info@santelequip.com



CDMA: BC0
GSM 900/1800MHz

Bandwidth:

SA M/A ME:

Max. 85.6kbps (Uplink & Downlink)

SA8 MVE:

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

- Modbus RTU : RS485, 2 Wire, Master Mode
- Terminals : Screw type connector
- SMS : 160 Characters. 50 Modbus parameters ,100 alert SMSs
- Email : 160 Characters. 50 Modbus parameters ,100 alert Emails

Indications

LED Indication : 3 LEDs for network strength, 1 Power ON.1 Tx-1 Rx LED for RTU

Accessories

Antenna : SMA Connector. High gain antenna available as option
SIM & Holder : Push Type
Power supply : 24V DC, 1A , Range 18V – 36V DC.
Terminals : Screw type connector
Power : 2W

Mechanical

Enclosure : Metallic Enclosure with DIN rail mounting
Dimension : 119 x 119 x 36 mm for enclosure (Excluding antenna)

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Environmental Conditions

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

Ordering Information

Ordering Code	Description
SA M	2G Modbus Master Port, SMS only
SA ME	2G Modbus Master Port, SMS and Email
SA8 MVE	4G Modbus Master Port, SMS, Voice, Email

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