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Connecting. Converting. Leading !

### GSM/GPRS Smart Alert Gateways, Model SA246M/SA8-246M



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

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

SA246M/SA8-246M can also extract Alarm conditions from Modbus port & relay them as SMS

### General Specifications

- Quick SMS alerts from field inputs
- Combination of 4 Digital and 2 Analog Inputs (4 to 20 mA), upto 6 Digital outputs and RS485 interface with Modbus RTU support
- For every input, unique SMS can be sent to 10 numbers
- Digital Outputs to be controlled via SMS
- Buzzer for audible status
- Periodic update of Analog inputs along with engineering unit and Digital inputs status as normal or alarm
- Configuration via preformatted SMS
- Built in RTC

### Cellular Specifications

- High Performance Quectel Module
- **Band:**  
**SA246M:**  
GSM 850/900/1800/1900MHz

**SA8-246M:**  
(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:**

**SA246M**

Max. 85.6kbps (Uplink & Downlink)

**SA8-246M:**

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**

- Analog Inputs : 2 no's, 4-20mA
- Digital Inputs : 4 no's, Potential free / 24V DC
- Digital Outputs : 6 no's, Potential free
- Modbus RTU : RS485, 2 Wire, Master Mode
- Terminals : Screw type connector
- SMS : 160 Characters. 10 Modbus parameters

**Indications**

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

**Accessories**

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

**Mechanical**

Enclosure : Metallic Enclosure with DIN rail mounting  
Dimension : 135 x 115 x 35 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
SA246M	Smart Alert 2G Gateway with 2 Analog Inputs(4-20mA) 4 Digital Inputs (Potential free), 6 Digital Outputs (NO contact of 5A, 230V rating) and Modbus Master Port
SA8-246M	Smart Alert 4G Gateway with 2 Analog Inputs(4-20mA) 4 Digital Inputs (Potential free) , 6 Digital Outputs ((NO contact of 5A, 230V rating) and Modbus Master Port