

GSM/GPRS Smart Alert Gateway, Model SA884M/SA8-884M



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. SA884M can also extract Alarm conditions from Modbus port & relay them as SMS.

General Specifications

- Quick SMS alerts from field inputs
- Combination of 8 Digital and 8 Analog Inputs (4 ~ 20 mA) , upto 4 Digital outputs and RS485 port 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 indication
- Periodic update of Analog input along with engineering unit and Digital inputs status as normal or alarm
- Configuration via preformatted SMS
- Built in RTC

Cellular Specification

- High Performance Quectel Module
- **Band:**
SA884M:
GSM 850/900/1800/1900MHz

SA8-884M:
(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

- **Bandwidth:**
SA884M:
Max. 85.6kbps (Uplink & Downlink)

SA8-884M:
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)

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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	: 8 no's, 4-20mA
Digital Inputs	: 8 no's, Potential free / 24V DC
Digital Outputs	: 4 no's, Potential free
Modbus RTU	: RS485, 2 Wire, Master Mode
Terminals	: Screw type connector
SMS	: 160 Characters. 20 Modbus parameters or more depending on the SMS format

Indications

LED Indication	: 3 for network strength, 1 Power ON, LEDs for Input status
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Accessories

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

Environmental Conditions

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

Mechanical

Enclosure	: Metallic Enclosure with DIN rail mounting
Dimension	: 175 x 115 x 35 mm for enclosure (Excluding antenna)

Ordering Information

Model Variants Available (2G)

SA400M	: 2G Smart Alert Gateway with 4 Analog Inputs
SA800M	: 2G Smart Alert Gateway with 8 Analog Inputs
SA080M	: 2G Smart Alert Gateway with 8 Digital Inputs
SA880M	: 2G Smart Alert Gateway with 8 Analog Inputs, 8 Digital Inputs
SA442M	: 2G Smart Alert Gateway with 4 Analog Inputs, 4 Digital Inputs, 2 Digital Outputs

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SA664M : 2G Smart Alert Gateway with 6 Analog Inputs, 6 Digital Inputs, 4 Digital Outputs
SA884M : 2G Smart Alert Gateway with 8 Analog Inputs, 8 Digital Inputs, 4 Digital Outputs

Model Variants Available (4G)

SA8-400M : 4G Smart Alert Gateway with 4 Analog Inputs
SA8-800M : 4G Smart Alert Gateway with 8 Analog Inputs
SA8-080M : 4G Smart Alert Gateway with 8 Digital Inputs
SA8-880M : 4G Smart Alert Gateway with 8 Analog Inputs, 8 Digital Inputs
SA8-442M : 4G Smart Alert Gateway with 4 Analog Inputs, 4 Digital Inputs, 2 Digital Outputs
SA8-664M : 4G Smart Alert Gateway with 6 Analog Inputs, 6 Digital Inputs, 4 Digital Outputs
SA8-884M : 4G Smart Alert Gateway with 8 Analog Inputs, 8 Digital Inputs, 4 Digital Outputs

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