

# Asvito SMS Alarm Modem

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**The Asvito SMS Alarm Modem sends alarm messages triggered by GPIO signals from external sources. The alarm can trigger on either rising or falling edge, and a customized alarm text is sent to a list of up to five recipients.**

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## Overview

The Asvito SMS Alarm Modem is highly suited in industrial and mobile application for monitoring of passive sensors. It can constantly monitor two independent GPIO sources, and fire an SMS alarm message if the IO level changes to the preset alarm level. The message is sent to a list of up to five recipients, and can be set up to require that any of the recipients confirm the alarm. Any system property like the system ID, alarm message texts, power on message and password can be customized to fit the customers specific needs



## Features

The Asvito SMS Alarm Modem has several useful features, making it an excellent field device which will help you save time and reduce costs:

- **SMS Alarm** – Sends a SMS alarm message to a list of recipients when an alarm is signaled.
- **Alarm confirmation** – The alarm confirmation can be enabled for the alarm source, making the Asvito SMS Alarm Modem resending the alarm message until the alarm is acknowledged.
- **The Recipient list** – A list of up to five recipients who will receive the SMS alarm messages.
- **Password protection** – All SMS command are password protected to prevent unauthorized use.
- **SMS Configuration** – All configuration is done using SMS, there are no need for additional software or sending a field engineer.
- **System ID** – The Asvito SMS Alarm Modem can set a custom defined system id, which will be used in all alarm messages to identify the alarm source.
- **Alarm message text** – The user can set a custom alarm message text for each source to identify the actual alarm.
- **Power on message** – When the Asvito SMS Alarm Modem starts up, a message can be sent to the recipients to indicate that a power loss may have occurred.
- **PIN Code** – The Asvito SMS Alarm Modem supports changing the SIM card PIN code using SMS commands.

## Alarm operation modes

The Asvito SMS Alarm Modem can operate in two modes, normal and alarm confirmation mode. In normal mode, the SMS alarm message is sent, and the modem will wait for the alarm signal to reset before sending a new message.

In alarm confirmation mode, the latest alarm message will be resent a number of times (default 3) until the alarm message is confirmed. The alarm message is sent to all the recipients, and any of the recipients can confirm the alarm. When an alarm is confirmed, or after the message is resent the specified number of times, the alarm state is reset and the modem will wait for the next alarm signal.

## SIM Card

The only prerequisite in order to have the modem operational is a SIM card. Since the modem is fully operated by SMS messages, its recommended to use a plan which has a low monthly fee and low prices

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## PRODUCT BRIEF



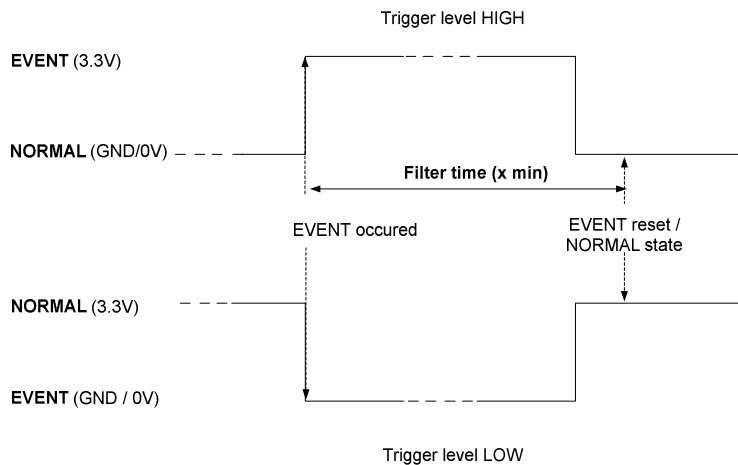
on SMS. It is not recommended to use a cash card since it might run out of credit and cause the modem to malfunction.

### Startup and configuration

The SMS Alarm Modem does not require any special skills or knowledge to set up. It has clear and detailed user manual, and every feature are described with the user in focus. Each command description is followed by detailed examples to ease understanding. During the installation it is required to use a mobile phone to send SMS messages, but there are no needs for a PC or any special software.

The alarm message recipients are also stored on the five first places on the SIM card, so every SIM card can be preconfigured before deploying the modem.

### Electrical specifications:



Signal	Type	Min	Max
ALARM1	CMOS TTL	$0V > V_{IL} > +0,84V$	$1,96V > V_{IH} > 3,3V$
ALARM2	CMOS TTL	$0V > V_{IL} > +0,84V$	$1,96V > V_{IH} > 3,3V$

### Accessories:

- GSM Antenna
- Mounting brackets
- Composite power and signal cable

### Tailoring

The Asvito SMS Alarm Modem application can be tailored to meet your specific requirements, please contact us if you want to request a feature or add custom functionality.

### Technical specifications

<b>Wireless platform:</b>	Wavecom Fastrack Supreme 10
<b>Wireless band:</b>	GSM Quad Band: 850 / 900 / 1800 / 1900 MHz
<b>Processor:</b>	ARM 946, 32 bit, 104 MHz, 88 MIPS max.
<b>Mechanical characteristics:</b>	Dimensions: 73x54.5x25.5 (88x54.5x25.5) mm Aluminum profiled housing.
<b>Electrical characteristics:</b>	Operating range: 5.5V to 32.0V Current consumption: 480 mA average, 2.1A peak at 5.5V.
<b>Antenna:</b>	Frequency range: Quad-band (GSM800/900/1800/1900). Impedance: 50 Ohms nominal, Gain: 0 dBi, V <sub>SWR</sub> : 2
<b>Environmental characteristics:</b>	Full performance: -20 to +55 C Degraded performance: -30 to +85 C Storage: -40 to 85