

## SMS Module

Integrated GSM mobile - use with any **PicoServ** I/O card to provide a complete control solution via GSM mobile telephones.

**PicoServ** is all about providing simple remote access. Used with any PicoServ I/O card, the SMS module extends monitoring and control of equipment or systems to the users GSM mobile phone, using SMS.

**PicoServ** delivers a low cost, universal and ready made GSM monitoring and control solution.

The PicoServ SMS module is designed to interoperate with any of the PicoServ expansion modules and can be installed with, or instead of the PicoServ web server module. Connection to the GSM network is via a built-in dual band GSM cellular engine and is compatible with all 900 or 1800Mhz GSM networks.



By extending the remote monitoring and control possible with a PicoServ system to the mobile phone, the SMS module can provide many more applications possibilities. The system can provide truly remote personal situation awareness. Almost any number of mobile users can contact and request information from a PicoServ based system and up to 16 nominated users can receive notification of events or when preset limits are reached.

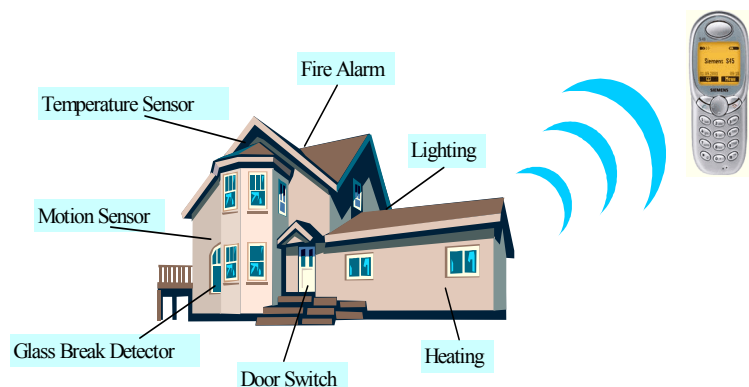


With The PicoServ SMS module you can use a mobile phone to:

- Monitor the status of systems or equipment.
- Send control commands to remote equipment.
- Receive notification of events or when preset limits are reached.

### Input/Output

The SMS module can be used with all the standard PicoServ interface modules which simply plug in and provide a range of analogue and digital inputs and outputs. This method provides a 'no development', real-world interface, making the input and output variables available to the user via a mobile phone.



## Web Server

The SMS module can be used with or without the PicoServ Web Server Module. When used in conjunction with the server module a web browser interface can be provided to the SMS module allowing easy programming of actions, numbers and messages in the SMS module, or the creation of a simple web based SMS messaging centre.

## Connecting to the Network

The PicoServ Integrated SMS module has its own built-in GSM engine for sending and receiving SMS text messages. All that is required is a SIM card (network subscription). Either a contract or pay-as-you go subscription can be used. The type of subscription needed will depend on the type of application and particularly the mix of outgoing and incoming SMS messages.

## Specifications

### Interfaces

<b>I2C Serial bus interface</b>	Used for parameter and data exchange between The SMS module and PicoServ web server or I/O modules. Conforms to Philips I2C bus specification.
Speed:	750Kbps.
Addresses:	up to 8
Connector:	14 pin 0.1" male header.

### GSM Engine

<b>Band</b>	Dual band 900Mhz and 1800Mhz.
<b>RF Power</b>	Class 4 (2W) 900Mhz, Class 1 (1W) 1800Mhz.
<b>Antenna Connection</b>	50Ω SMA Connector.

### Gateway Functions

<b>Remote Parameter reading</b>	The value of any PicoServ Parameter can be requested from a GSM mobile device.
<b>Remote Parameter Setting</b>	The value of any PicoServ Parameter can be set from a GSM mobile device.
<b>Programmable Message Sending Rules</b>	Up to 16 Message sending rules can be programmed to trigger the sending of any programmed message, which can include variable data fields to any or all of 16 different GSM numbers either simultaneously or at programmed intervals.
<b>Trigger Conditions</b>	Any PicoServ system parameter specified as being =, !=, <, >, >=, <= a user programmed value.
<b>Trigger qualify time</b>	Programmable from 0-9999 seconds
<b>Trigger re-arm time</b>	Programmable from 0-9999 minutes or re-arm from remote command.
<b>Programmable GSM Telephone Numbers</b>	Up to 16
<b>Programmable Number Groups</b>	4, with up to 16 numbers per group from number list
<b>Programmable Messages</b>	16, 160 characters per message Messages can include dynamic (variable) data
<b>Administration</b>	All functions of the SMS module can be administered from a GSM mobile. Additionally if a PicoServ Web Server is installed in the system the gateway can be administered from a Web Browser or an NMS using SNMP
<b>Security</b>	Incoming requests or commands can optionally be accepted only from designated mobile numbers. In addition, optional password protection can be enabled.

### Electrical

<b>Power requirements</b>	6-18 VDC, 45mA average, 2A peak
<b>Power consumption</b>	400mW average at 9V

### Environmental

<b>Operating Temperature</b>	-20 - +55°C
<b>Storage Temperature</b>	-40 - +85 °C
<b>Humidity</b>	0-95% non-condensing

<b>Dimensions</b>	70mm x 50mm x 16mm (2.75" X 2" X 0.625")
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