

# Modem GSM

## DESCRIPTION

Digicom Modem GSM is an innovative solution for data communication over the GSM network both at 900MHz and 1800MHz.

It can automatically switch between the 900 or 1800 networks.

Based on a new technology, Modem GSM offers multiple functionalities to be used in many fields like industry, public services, private and public telecommunications, data collection, Internet mobile connection via laptop, payment systems, security and anti-intrusion.

Digicom Modem GSM is suitable for the following applications:

- telemetry
- remote control in energy production environments
- on oil platforms
- inside gas, water and electrical energy distribution rooms
- for the monitoring of ways and railways (traffic detection, SOS points, etc.) and for traffic lights remote control
- on-line public informative systems (rotating advertising messages on ways, motorways, buses)
- image transmission in security applications
- bypass of the last mile through the GSM network, for telecommunications operators.

There are many other possible applications for this product that will follow the constant evolution of the GSM technology.

Modem GSM has a coaxial interface on **SMA** connector for the dual band built-in antenna supplied with the device. Easy to install, it is ready to be used.



- 900/1800 MHz GSM Dual Band Modem
- Phase 2 and Phase 2+ GSM compliant
- Class 4 900MHz radio (2 Watt output power) and Class 2 1800 MHz radio (1 Watt output power)
- Built-in antenna
- ST antenna connection
- Data up to 9600 bps
- AT command: extended AT and ETSI 7.05, 07.07
- Supported Mode:
  - transparent (Non Radio Link Protocol)
  - non transparent (Radio Link Protocol)
- V.110 protocol supported
- SMS protocol supported
- SIM card protected slot
- Data Interface: asynchronous V.24/V.28
- Power Supply: from 9 to 28Vcc
- Mechanic dimensions: 145mm(L) x 68mm (D) x 105 mm (H)
- Operating temperature: from 0 to 95% non condensing
- FTA - Full Type Approval

In case the signal is poor and a bidirectional antenna is required, it is possible to connect an external antenna to the GSM modem.

*Mobile Solutions for Data, Fax and SMS*

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Digicom Modem GSM is compliant with most applications actually used with the traditional analog modems. The modem is managed through the AT commands and the ETSI 07.07 and 07.05 standard; it allows **Transparent** or **Non Transparent** (with RLP Radio Link Protocol) data transmission.

**V.110 protocol** is supported for a direct connection to ISDN devices and for an immediate connection. Also the **SMS protocol** and the services included into this protocol are supported.

Modem GSM has a 9 pin serial interface, while the power supply cabling uses the typical connectors of automotive solutions to guarantee the maximum reliability.

The SIM slot and the SIM Holder have been projected to be easily installed and maintained. The SIM can be removed by simply acting with a point or a pen.

Thanks to the Flash technology, Modem GSM is local and remote upgradable. It is possible to transfer the updating of the new code. Then the microprocessor on board will automatically reload the Flash and no operator is needed.

Furthermore, Modem GSM can be remote configured in order to carry out any modifications or test needed.

The maximum security is guaranteed by a sophisticated system of access control, based on the Caller Identification (CLI) that will give access only to authorized users.

Modem GSM is inserted into a plastic case with holes for the wall mounting.

