

## DESCRIPTION

***The easiest GSM solution to be integrated in your systems.***

The growing demand for automatic devices has finally seen the development of the Wireless market for the most different applications.

Always careful to the market needs, Digicom projected and carried out the **new GSM Bulk**.

GSM Bulk is a Dual-Band GSM /GPRS modem (900-1800 MHz) designed to be integrated into professional equipments and to be used for Data and SMS applications.

GSM Bulk has a serial interface with a 2x9 pin male connector and can be easily integrated in your applications.



The main aim of GSM Bulk is the one to offer a GSM platform easy to use and integrate. Ready to be used, it is supplied with a 5Vdc power supply circuit, with the SIM card holder (plug-in type) and with the professional antenna (SMA connector).

On request it is possible to equip GSM Bulk with a 2x25 pin male connector for particular needs.



### ***GPRS Ready: Ready for the future***

GSM Bulk can be updated to new standards and functionalities. In applications where the "Always on" function is required, it can be updated to the GPRS function. In this way you can be always competitive offering the best solutions of the moment to your customers.

### ***Even more performing***

GSM Bulk is complete in all its functionalities: Data, Voice and SMS (both in Text and PDU mode).

**Code: 8D0100 Audio supported**

**Code: 8D0097 Audio not supported**

**Code: 8D0101 50 poles connector**

- Dual-Band modem EGSM900/DCS1800
- Can be updated to GPRS Class2
- Standard ETSI GSM Phase 2+ compliant
- Radio GSM 900MHz Class 4 (2Watt output power)
- Radio GSM 1800MHz Class 1 (1Watt output power)
- External antenna (SMA connector)
- AT commands supported (GSM 07.07-07.05)
- Data transmission up to 9600bps V.32, V.22bis, V.22, V.21
- V.110 ISDN Data transmission up to 9600bps
- Non-Transparent mode (RLP)
- SMS support PDU and Text mode (MO/MT)
- Voice Support (Code 8D0100)
- 6 General Purpose Input/Output (optional)
- Protected SIM card slot Plug-in type (3V)
- Data Interface: RS232 (male connector 2x9 pin)
- LED indicator (logged/not-logged)
- Power Supply: 5Vcc +/-10%
- Size: 76 x 48 x 15 mm
- Weight: 40 gr.
- Full Type Approval (R&TTE)
- CE Mark

The setup is carried out through a complete set of AT commands, complying also with the GSM ETSI 07.07 and 07.05 standards and through the proper commands for the most particular functions.

# GSM Bulk

## Finally an embedded application!

Thanks to the technology used in GSM Bulk, it is possible to build custom applications to satisfy any particular need.

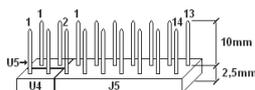
We can carry out applications working independently from your device, taking care of the “communication” part only.

For example, we can send an SMS when a change of a TTL input is detected or manage a password exchange without modifying a string in your application.

## GSM Bulk is suitable for the following applications:

- telemetry;
- remote control in energy production environments;
- 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;
- inside POS terminals;
- bypass of the last mile through the GSM network, for telecommunications operators;
- inside vending machine and dispensers;
- in automotive applications;

## Pin-out Technical Features



**J5: RS232 [standard]**  
(male connector 2x7 passo 2,54)

**U4: Microphone input [standard]**  
(male connector 2pin passo 2,54)

**U5: Speaker output [standard]**  
(male connector 2pin passo 2,54)



**J7: RS232 [optional]**  
(male connector 2x25 passo 1,27)

PIN J5	PIN J7	SIGNAL	DIRECTION	ELECTRIC LEVEL
1	--	DCD	DTE <- DCE	TTL 0 = Active
2	27	DSR	DTE <- DCE	TTL 0 = Active
3	28	RxD	DTE <- DCE	TTL 0 = Space
4	30	RTS	DTE -> DCE	TTL 0 = Active
5	25	TxD	DTE -> DCE	TTL 0 = Space
6	13	CTS	DTE <- DCE	TTL 0 = Active
7	29	DTR	DTE -> DCE	TTL 0 = Active
8	-	RING	DTE <- DCE	TTL 0 = Active
9	1-2-6	Gnd	-	0 Volt
10	3-4	5Vdc ± 10%	-	5 Volt
11	-	-	-	N.C.
12	15	On/Off	DTE -> DCE	TTL 1 = On TTL 0 = Off
13	-	-	-	N.C.
14	21-24	Gnd	-	0 Volt
(U4) 1	20	Mic (+)	DTE -> DCE	
(U4) 2	-	Mic (-)	DTE -> DCE	
(U5) 1	12	Spk (+)	DTE <- DCE	
(U5) 2	-	Spk (-)	DTE <- DCE	

## Power Supply

Vcc = 5Vdc ± 10%  
Icc = 350mA typ [1700mA max]