Remote Control *GSM/GPRS Modem*

POCKET GPRS MICRO INDUSTRIAL

- **GSM/GPRS** serial modem
- Class 10 GPRS
- **Powerful microprocessor**
- **Quad-Band GSM Engine** (850/900/1800/1900 MHz)
- **IP Data, CSD and SMS** applications
- **Remote management** of any serial device
- **RS232 / RS485** data interface
- **Full TCP/IP Stack** On Board
- Socket TCP/IP Data Transfer Support
- **FTP** data Transfer support
- Compact design with **DIN-rail Mounting kit**

DESCRIPTION

POCKET GPRS MICRO INDUSTRIAL is a **GSM/GPRS serial modem suitable for Data and SMS applications**.

POCKET GPRS MICRO INDUSTRIAL is the top level of the new generation of Digicom GSM/GPRS terminals that in the last years gained the trust of several installers of wireless applications.

In its standard version POCKET GPRS MICRO INDUSTRIAL is equipped with a powerful microprocessor for an easier installation in **industrial applications**, **especially when used with PLC**, **power meters**, **presence detectors** or any industrial devices.

It can be used **in any application where it is necessary to have a DATA connection** (IP or CSD) to access and remote control the installation or **to connect and transfer the data between the center and the remote site**.
If you haven't many information to send, we suggest to use SMS management to send data with Pocket GPRS MICRO INDUSTRIAL at a low cost.

The integrated Micro processor will not influence the standard operation with GSM devices; **you can really go on using the software applications you normally use** without worrying about any incompatibility with AT commands as eventual AT commands not foreseen in the software can be managed directly by the microprocessor as additional strings.

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No more "device cannot be reached" message with the GSM network automatic search and the registration periodic update to the GSM network set by the user.

The power cabling uses a **minifit connector**, the same used in automotive application, able to guarantee the maximum reliability.

The **power range** is wider, **from 9 to 32Vdc** with a considerable low consumption so that POCKET GPRS MICRO INDUSTRIAL can be used in various applications without modifications or adapter.

Also a power supply through solar panel can be taken into considerations.

The **data interface is a 9 pin RS232 serial interface**

The pin-out assignment is the following:

Pos	In/Out	Description
1	Out	Data Carrier Detect (DCD)
2	Out	Receive Data (RD)
3	In	Transmit Data (TD)
4	In	Data Terminal Ready (DTR)
5	-	Signal ground (SG)
6	Out	Data Set Ready (DSR)
7	In	Request to send (CTS)
8	Out	Clear to send (CTS)
9	Out	Ring Indicator (RI)

The **"secondary" data interface is an RS485** in screw terminal block .

The pin-out assignment is the following:

Pos	In/Out	Description	Marking
1	In/Out	T+ (A/A') Tx/Rx RS485 2-Wire	T/R+
2	In/Out	T+ (A/A') Tx/Rx RS485 2-Wire	T/R+

Pocket Micro Hardware structure

The hardware structure of POCKET GPRS MICRO INDUSTRIAL is based on a **powerful microprocessor and a GSM engine** so that you can fully control the GSM engine, independently from the type of engine used.

Customers choosing digicom's solutions **save their investments** in term of application as digicom can follow the "natural" evolution of the GSM engine.

Should the GSM engine change (more feature & less cost), the customer keeps the same application without any modifications.

TCP/IP Stack

POCKET GPRS MICRO INDUSTRIAL uses an STMicroelectronics, STM32 family microprocessor (ARM7/Cortex) on which digicom developed a complete TCP/IP stack able to cover all the requests.

It's possible to set the **Auto connect features** (i.e. Always on) so that the modem is able to activate a GRPS connection at every start up or if the connection drops.

Alternately it is possible to activate a GPRS connection to a remote server (IP address and port) parsing the ATDxxxx command where is not possible to change the telephone number.

TECHNICAL FEATURES

- Industrial modem for GPRS/GSM/SMS applications
- Quad-Band Engine 850/900/1800/1900 MHz
- GPRS Class 10
- GSM speed up to 9600 bps
- Built-in Full TCP/IP Stack
- Powerful ARM Microprocessor
    STM32 (ARM 32-bit Cortex™-M3 CPU
    256 – 512 Kbytes Flash
    64Kbyte di RAM.
- Extended Power range from 9 to 32 VDC
- Low power consumption
- Extended Temperature range:
    -20˚ + 60˚;
- RS232 serial interface on DB9 Female
- RS485/422 serial interface on screw terminal block
- DIN-rail Mounting Housing
- SMA connector for Antenna
- Status LED
- Dimensions: 115 x 99 x 22,5 mm