

GPRS Module

Model: GM900

Applications

- Telemetry
- Remote communication with stations
- Industry
- Meteorology
- Hydrology
- Traffic monitoring
- Intelligent monitoring of inaccessible places
- Alarm
- Data transmission

Features

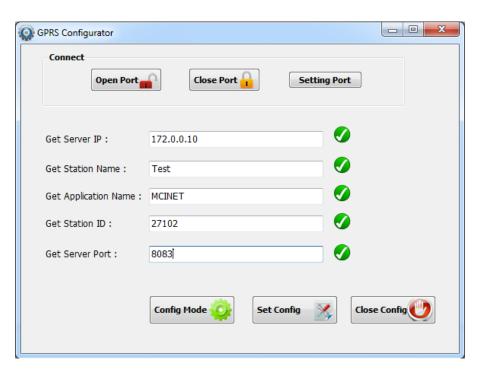
- Use of all SIM cards
- Great signal level
- RS232 port
- RS485 Possibility
- Low power consumption
- Adjustable baud rate
- External antenna
- Auto connect to GPRS Network and Internet
- Possibility of setting IP address and Port number
- Possibility of setting module parameter remotely and by SMS
- Consecutive effort to connect network to obtain IP address
- LED indicator for network
- User friendly Software for configuration
- Protocol determination for TCP/UDP





Specification			
Power supply	1235VDC		
Power consumption	normal mode: 20mA max		
	operating mode: 60mA max		
Connection	RS232 Port		
LED	PWR/NET		
Standard	GSM/GPRS		
Band option	Quad band 850/900/1800/1900 MHz		
Sim number	1		
Sim control	3V		
Port number	1		
Serial Standard	DB9 female connector		
Serial Signal	TxD, RxD, GND, DTR, RTS		
IP protection	IP55		
Weight	200g		

Configurator software:



You can config this module by simple configurator software, hyper terminal or SMS.

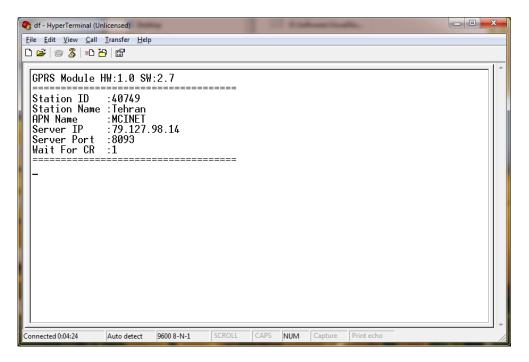


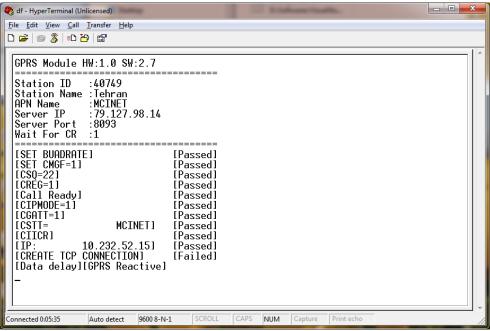
How to use this module:

- Connect the module to PC by RS232 port.
- Open hyper terminal with setting of 9600, n, 8, 1
- Turn off/on the module to appear some information on hyper terminal (module hardware and software version)

In debug mode you can see the whole operation steps consecutive.

*to enter in debug mode you should use the command of **\$DBG** (explained on table below). Otherwise the serial port side is silent.

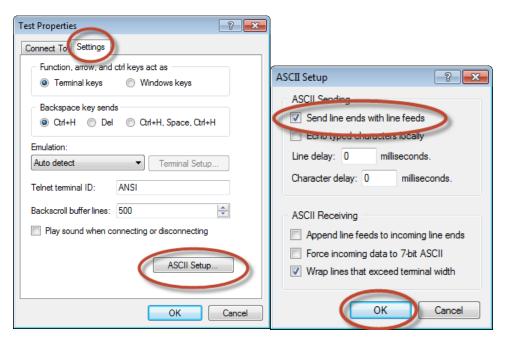


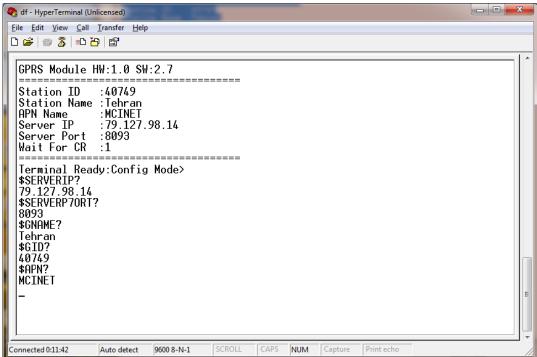




If a new setting is needed, it is necessary to go to config mode. For this reason restart the module then press Enter key until to display Terminal Ready Config mode>. Now the module is ready to accept the commands.

*for config mode first go to the **properties** of hyper terminal and **setting** tab, then press the **ASCII setup** and check the **send line ends with line feeds**.





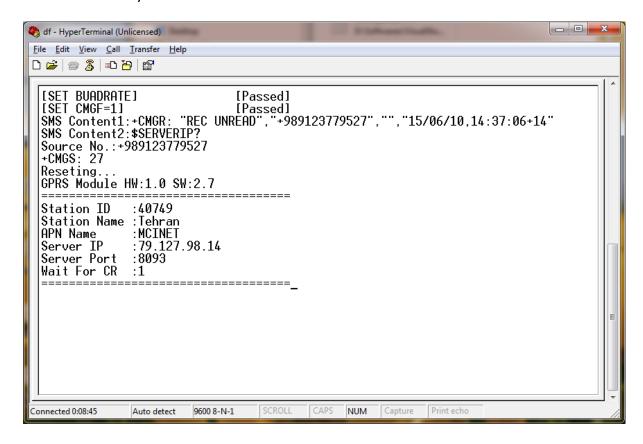
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Commands list:

	Command	Result	Explain
1	\$SERVERIP?	79.12.10.19	Read IP address of destination server
2	\$SERVERIP=79.12.10.19	OK	Set IP address of destination server
3	\$SERVERPORT?	8092	Read software port of destination server
4	\$SERVERPORT=8092	ОК	
5	\$APN?	MCINET	Read operator access point
6	\$APN=MCINET	OK	Set operator access point
7	\$GNAME?	Tehran	Read station name
8	\$SNAME=Tehran	OK	Set station name
9	\$GID?	12740	Read station ID
10	\$SID=12740	OK	Set station ID
11	\$DBG?	0 or 1	Read operation mode 0=operational 1= debug
12	Enter/exit to debug mode	0 or 1	Exit \$DBG=0 Enter \$DBG=1
	Obviously, after the desired settings and exit from debug mode, just connect the serial port of module to datalogger or other devices and restart the module to begin the data transmission.		

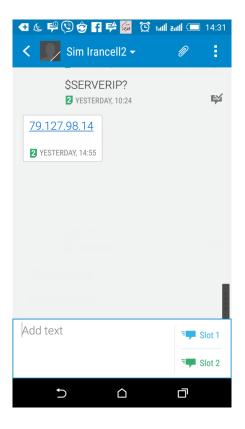
Send command by SMS to module:

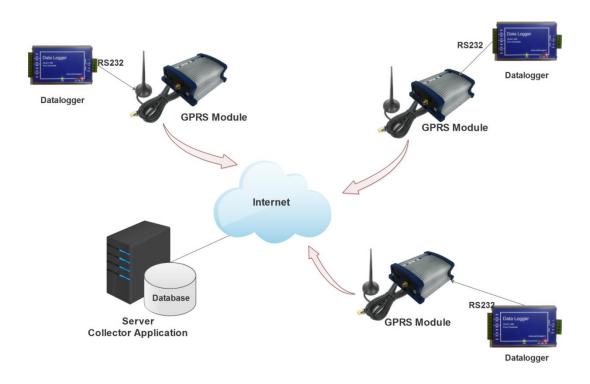


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Send command to module by SMS and display answer on phone:





Communication diagram

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