

- GSM/GPRS packet transmissic
- Integral GSM 850/900/1800/1900 modem v automatic login onto GPRS netw
- Isolated serial communication port for exte devices (RS 232/422/485
- Programmable functions for data proces
- Standard communication protocols (MODBUS F M-BUS, NMEA 0183
- Built-in Master and Slave functiona
- FlexSerial mode for program based protocol han
- Data mirror of external resources and event trig transmission (unsolicited messagi



The 202 module has been designed for easy, wireless 232/422/485.devices, operator panels) equipped with serial port RS-devices (e.g. PLC controllers, I/O stations, measuring integration via GPRS network of various remote intelligent

202 can be used as wireless, "transparent" serial port, but it can also play a role of a local Master querying periodically an external device for user defined resources (e.g. inputs, outputs, analog inputs, internal registers and flags). In such case 202 creates in memory a mirror of the external resources and detects alarms, state changes, analog value changes and fulfilled logic conditions incorporating raw and calculated values. Data are transmitted via GPRS according to user defined rules.

Industrial grade design, integral GSM/GPRS modem, user programming capabilities, attractive technical features and easy to use configuration tools - these are important advantages of 202 in applications of wireless telemetry, maintenance, diagnostic, control and automated meter reading (AMR).

Resources

- Isolated serial port RS-232/485/
- User program accessible internal flags and re
 - ✓ 512 internal 16-bit regis
 - ✓ 176 internal flags in binary output
 - ✓ 256 internal retentive f
 - ✓ 256 internal non-retentive
 - ✓ 12 independent internal ti
 - ✓ 32 special purpose flags for triggering alar event messag
- Firmware Flash memory with remote update c
- Real Time Clock (RTC) with external synchron functor
- Power backup detection i

Functionality

- Transmission mod
 - GPRS - packet transmiss
 - SMS
 - CSD - circuit switched data transmission (in moden only
- Access to internal resources with standard MODBL protoc
- Intelligent packet routing and Multimaster operation in mod
- Packet routing in transparent
- Wireless serial port capability in transparen
- Event triggered GPRS transmission (usolicited mes
- Programmable logic functions using markers, timers, c diagnostic flags and registers for event triggerin transmission, SMS and e-mail sending, setting values of and internal regist
- Unsolicited messages triggered by change of marker fulfilled logic condit
- Time-based and event-based SMS mes
- Automatic update of dynamic fields in SMS m
- Functionality of local Master for slave devices connecte serial communication port RS-232/422
- External resources mapping (mirroring) for event dete triggerir
- Programmable handling of non-standard communicatio - FlexSerial moc
- MT2MT buffer for direct data sharing between I 101 and 102 telemetry modules.

- Built-in data integrity and frame delivery checking
- "Watchdog" circuitry - automatic reset in case of abnormal state
- Timers synchronized with RTC
- Local and remote (via GPRS) configuration, programming and firmware update
- Configurable security settings - list of authorized IP addresses and telephone numbers, access passwords
- DIN rail mounting
- Power supply 12/24V DC, 24 V AC
- Removable terminal blocks
- Diagnostic LEDs (module status, GSM transmission activity, GSM signal level, GPRS activity, serial communication activity)
- User-friendly configuration tools

General

Dimensions (length x width x height)	105x86x60 mm
Weight	300 g
Mounting	DIN Rail 35mm
Operating temperature	-20 ... +55°C
Protection class	IP40
Max. voltage at all connectors relative to device's GND.	60Vrms max

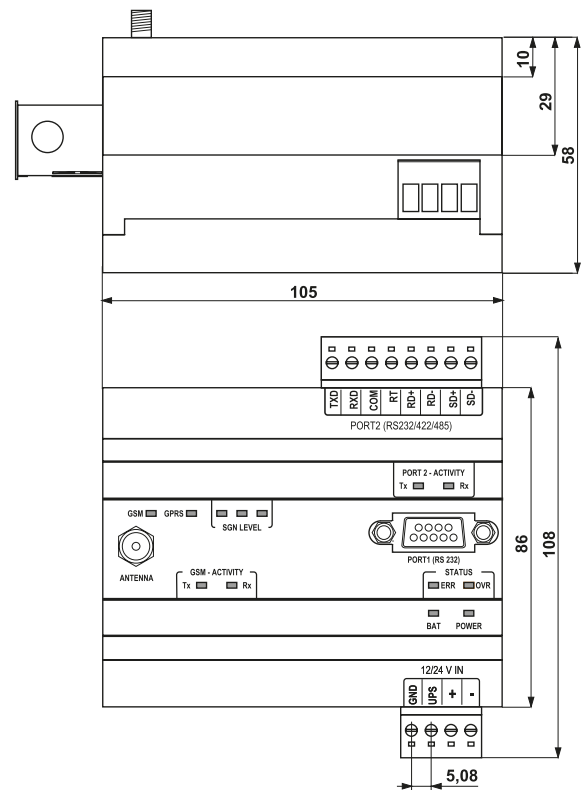
GSM/GPRS Modem

Modem type	WAVECOM WIRELESS CPU
GSM	QuadBand (850/900/1800/1900)
Frequency range:	
GSM 850	Transmitter: 824MHz – 849 MHz Receiver: 869 – 894 MHz
EGSM 900	Transmitter: 880MHz – 915 MHz Receiver: 925 – 960 MHz
DCS 1800	Transmitter: 1710MHz – 1785 MHz Receiver: 1805 – 1880 MHz
PCS 1900	Transmitter: 1850 – 1910 MHz Receiver: 1930 – 1990 MHz
Sender's peak power GSM850/EGSM900	33 dBm (2W) - class 4 station
Sender's peak power DCS1800/PCS1900	30 dBm (1W) - class 1 station
Modulation	0,3 GMSK
Channel spacing	200 kHz
Antenna	50

Power supply

Voltage range (DC) 12,24V	10,8 ... 36 V		
AC (24V)	18...26,4 Vrms		
Input current (A) (for 12V DC)	Idle 0,10	Active 0,60	Max 1,90
Input current (A) (for 24V DC)	Idle 0,06	Active 0,25	Max 1,00

Drawings and dimensions (in millimeters)



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