












# iRZ ES90iPU

GSM modem iRZ **ES90iPU** — is GSM modem intended for receiving and transmitting of data by GSM standard cellular communication network (3G).

The modem is equipped with a watchdog timer that allows you to restart unconditionally after a specified period of time. The modem is controlled by standard AT commands, but also has its own set of commands. To track the status of the connection and display an accident modem is equipped with LEDs.

The modem **ES90PU** features the wide range of functions:

- monitoring and indication of emergency situations;
- a set of restart options;
- power supply from USB.

	FIVE-BAND		3G		GPRS CLASS 12
	EDGE CLASS 12		USB POWER FUNCTION		INDUSTRIAL INTERFACES
	WATCHDOG TIMER		SIM ACCESS PROFILE		EXTENDED TEMPERATURE RANGE



### Main parameters:

- Frequency ranges:
  - 850/900/1800 MHz for GSM/GPRS/EDGE
  - 900/2100 MHz for HSDPA/UMTS
- The maximum capacity of transmitter:
  - 33dBm (class 4 for GSM850/EGSM900)
  - 30dBm (class 1 for GSM1800)
  - 27dBm (class E2 for GSM 850/900)
  - 26dBm (class E2 for GSM 1800)
  - 24dBm (class 3 for WCDMA 850/1900/2100)
- MS class B
- USSD
- GPS
- SMS: MT, MO, Text and PDU
- The rate of the transmit/receive data:
  - HSDPA – 3.6 Mbps
  - UMTS – 384kbps (R99)
  - UMTS PS (receive/transmit) – 384kbps/384kbps
  - EDGE class 12 (receive/transmit) – 236.8 kbps/236.8 kbps
  - GPRS class 12 (receive/transmit) – 85.6 kbps/42.8 kbps

### Connectors and interfaces:

- USB-B – connect the communication cable, the interface is USB 2.0
- Connector DB9 - connect the communication cable, RS232 interface Only for the service mode
- Antenna connector FME
- Power connector (TJ6-6P6C plug a RJ12) - the modem power supply, reset signal

### Electrical characteristics:

Supply voltage range: 9 V ... 27 V

Supply current not more than:

- At 12 V supply voltage - 400 mA
- At 24 V supply voltage - 200 mA

### Physical characteristics:

- Plastic housing
- Dimension not more than: 69 x 75 x 26 mm
- Weight not more than: 125 g
- Operating temperature range:  
-30°C to +60°C
- Storage temperature range:  
40°C to +85°C

