

iRZ TG21

The dual band GSM modem **TG21** (900/1800 MHz) is designed for data transmission via cellular net-work. The modem supports GPRS (class 10) and TCP/IP protocol stack. A distinctive feature of this modem is a built power supply, that can work from an industrial network ~ 220 V 50/60Hz.

TG21 is focused on the use in industrial applications where the RS485 physical interface is used. This interface enables to connect simultaneously several external devices to the modem. All connections to the modem are made with the use of the terminal connector. The modem is assembled in the case meant to mount on DIN-rail.

TG21 supports all main communication functions: data transmission by CSD and GPRS technologies, fax and SMS transmit and receive. The modem management is realized with standard AT commands. The watchdog timer prevents from the device hang-up.

Extended temperature range and compact case provide the use of the modem in various industrial ap-plications. The **TG21** modem is focused on the use in automatic data acquisition systems from supply meters and other energy meters, vending machines, payment terminals, as well as other wireless data transmission systems.



Frequency bands:

- 900/1800 MHz
- 850/900/1800/1900 MHz (optional)
- GPRS class 10
- TCP/IP stack

Communication standards:

- GPRS Class 10 - up to 85.6 kbps
- MC class B
- SMS: MT, MO, CB, text and PDU modes
- CSD up to 14.4 kbps
- USSD
- Fax functionality - group 3: Class 1

Available network protocol:

- TCP, UDP, HTTP, FTP, SMTP, POP3
- AT command management (Hayes 3GPP TS 27.007, TS 27.005)
- SIM application toolkit
- Timer restore function

Connectors and interfaces:

- Screw terminal connector (RS485 interface, power input)
- Screw terminal connector (~220 V/50 Hz)
- SMA connector for GSM-antenna connection

Electrical characteristics:

- Built-in Power Supply Unit
- Power supply voltage: ~100...240 V
- Supply frequency: 50/60 Hz
- Current consumption: 300 mA max.
- Output voltage on connector 6P6C: 12...14.5 V
- Maximum total output current from the connector 6P6C: 100 mA max.

Physical parameters:

- Plastic case with the mount on DIN-rail
- Dimension not more than: 90 x 54 x 59 mm
- Weight not more than: 130 g
- Operating temperature range: -20°C to +65°C

