










# iRZ TL11

The new **TL11** GSM/LTE-modem transmits data through cell communication networks that support 2G/3G/4G. The modem supports the following frequency bands depending on the connection standards: LTE (800, 850, 900, 1800, 2100, 2600 MHz); HSPA/UMTS (850, 900, 1800, 2100 MHz); GSM/GPRS (850, 900, 1800, 1900 MHz).

**TL11** is equipped with a USB interface, which allows directly connecting the modem to a computer. The modem power is supplied through a TJ-6P6C connector.

**TL11** supports the main communication functions: data transfer through LTE/UMTS/HSPA/GPRS technologies. The modem is controlled with standard AT commands, and a set of own control commands. The built-in watchdog timer prevents the device from lagging.

The highest data transfer speed, a wide range of operating temperatures and a compact case body allow using **TL11** modem in various industrial applications: telemetry and telecommand, automated data collection systems, vending systems, payment terminals, and various systems requiring wireless data transfer.

 SIX-BAND	 4G	 3G
 EDGE CLASS 12	 GPRS CLASS 12	 INDUSTRIAL INTERFACES
 WATCHDOG TIMER	 SIM ACCESS PROFILE	 EXTENDED TEMPERATURE RANGE



### Frequency Band:

- LTE 800/850/900/1800/2100/2600 MHz
- HSPA/UMTS 850/900/1800/2100 MHz
- GSM/GPRS 850/900/1800/1900 MHz

### Communication Standards:

- LTE-FDD: downlink – up to 100 Mbps / uplink – up to 50 Mbps
- LTE-TDD: downlink – up to 68 Mbps / uplink – up to 17 Mbps
- DC-HSPA+: downlink – up to 42 Mbps / uplink – up to 5.76 Mbps
- HSPA: downlink – up to 14.4 Mbps / uplink – up to 5.76 Mbps
- WCDMA: downlink – up to 384 Kbps / uplink – up to 384 Kbps
- EDGE: downlink – up to 236.8 Kbps / uplink – up to 118.4 Kbps
- GPRS: downlink – up to 85.6 Kbps / uplink – up to 42.8 Kbps

### Connectors and Interfaces:

- DB9 connector to connect a communication cable (RS232 interface) (! only for service mode)
- USB-B connector (USB 2.0)
- TJ-6P6C power connector
- SMA jack to connect a GSM antenna

### Electrical Characteristics:

- Voltage: 9 – 30 V
- Maximum current:
  - 200 mA at 12 V
  - 100 mA at 24 V

### Physical Characteristics:

- Aluminum casing
- Dimensions: 76 x 77 x 31 mm max.
- Weight: 125 g max.
- Operating temperature range: -30°C to +60°C

