

iRZ TL21

The new **TL21** GSM/LTE-modem transits data through cell communication networks that support 2G/3G/4G. The modem supports the following frequency bands depending on the connection standards: LTE (800, 900, 1800, 2100, 2600 MHz); WCDMA (900, 2100 MHz); GSM/GPRS/EDGE (900, 1800, 1900 MHz).

TL21 is equipped with a USB interface, which allows directly connecting the modem to a computer without using an external power source. If necessary, the modem power is supplied though a TJ-6P6C connector.

TL21 supports the main communication functions: data transfer through LTE/UMTS/ HSPA+/EDGE/GPRS technologies, reception and transfer of faxes and SMS text messages. The modem is controlled with standard AT commands, and a set of own control commands. The modem is equipped with a GPS function when connecting an antenna to the external pin. The use of diversity antennas is supported. 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 **TL21** modem in various industrial applications: telemetry and telecommand, automated data collection systems, vending systems, payment terminals, and various systems requiring wireless data transfer.



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Frequency Band:	Communication Standarts:
 LTE 800/900/1800/2100/2600 MHz; HSDPA+/UMTS 900/2100 MHz; GSM/GPRS/EDGE 900/1800/1900 MHz; GPS 1575.42 MHz 	 LTE down – up to 100 Mbps; LTE up – up to 50 Mbps; HSPA+ down – up to 21.1 Mbps; HSPA+ up – up to 5.6 Mbps; EDGE class 12 – up to 236.8 Kbps; GPRS class 12 – up to 85.6 Kbps;
Features:	MS class B;SMS: MT, MO, CB, Text and PDU modes;
Available network protocols: TCP, UDP, HTTP, FTP, SMTP, POP3	USSD; Fax – group 3: class 1
Control through AT commands (Hayes 3GPP TS 27.007, TS 27.005)	Connectors and Interfaces:
SIM applications tools Timer reset function Power sleep mode	• DB9 connector to connect a communication cable (RS232 interface) (! only for service mode);
Reset options set	USB-B connector (USB 2.0);TJ-6P6C power connector;
Multiplatform support: Windows 2000/XP/Vista/7/Linux	 SMA jack to connect a GSM antenna; SMA jack to connect an additional antenna; SMA jack to connect a GPS antenna
	Electrical Characteristics:
	A possibility of USB power supply
	Voltage: 9 – 30 V Maximum current:
	• 200mA at 12V;
	• 100mA at 24V
	Physical Characteristics:
	Aluminum casing
	Dimensions: 76 x 77 x 31 mm max. Weight: 125 g max.
	Operating temperature range: -30°C to +60°C





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