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The iRZ TU42-232 GSM modem is an industrial GSM modem designed for high-bandwidth data and text messages transmission over GSM channel. The main features of TU42-232 are: Java™ support. The embedded Java platform offers easy and fast application development, a broad set of tools, high code reusability, easy maintenance, a proven security concept, on-device debugging, multi-threading programming and multi-application execution. The modem is controlled by standard AT commands. The terminal is equipped with the LEDs to monitor link status and abnormal conditions.

iRZ TU42-232 comes with a robust plastic housing. The modem can be mounted on DIN rail using mounting bracket, thus making the mounting process easy and convenient. A wide-spread USB 2.0 interface enables the direct modem connection to a computer without an AC power adapter.

iRZ TU42-232 can be easily integrated into many M2M solutions: mobile access to the Internet, telemetry, wireless data collection from sensors and meters, remote viewing, management and alarm systems.

 QUAD-BAND	 JAVA™	 3G
 GPRS CLASS 12	 EDGE CLASS 12	 TCP/IP CONNECTIVITY
 USB POWER FUNCTION	 SIM ACCESS PROFILE	 INDUSTRIAL INTERFACES
 WATCHDOG TIMER	 EXTENDED TEMPERATURE RANGE	



Package Contents:

The iRZ TU42-232 GSM modem package includes:

- 3G modem iRZ TU42-232
- Original package

General characteristics:

Frequency Bands:

- 900/1800 MHz for GSM/GPRS/EDGE
- 900/2100 MHz for HSPA+/UMTS

Standards and data transmission rates:

- HSPA+ download — 7,2 Mbps, upload — 5,7 Mbps
- UMTS PS download — 384 kbps, upload — 384 kbps
- UMTS CS download — 64 kbps, upload — 64 kbps
- EDGE Class 12, download — 236,8 mkbps, upload — 236,8 kbps; 236,8 kbps
- GPRS Class 12, download — 85,6 kbps, upload — 42,8 kbps

Communication Standards:

- MS Class B
- USSD
- SMS: MT, MO, Text and PDU

Parameters of open programming platform:

- Java™ ME 3.2
- Memory: 6 MB (RAM), 8 MB (Flash)
- Secure data transmission with HTTPS and PKI support
- Multitasking, multithreading, executing several applets simultaneously

Connectors and Interfaces:

- Interface USB connector (type B) - data cable connection, USB 2.0 interface, modem power supply
- Interface connector DB9-FF - connection of communication cable, RS232 interface
- FME-M antenna connector — connection of the GSM antennas
- RJ12-6P6C connector - modem power supply, reset signal

Special features:

- integrated TCP/IP stack
- Java™ support

Power Supply:

- Power voltage - 9 to 30V
- When powered via USB, 5V
- Current consumption:
 - at power supply voltage +12V - max 400 mA
 - at power supply voltage +24V - max 200 mA

Physical Specifications:

- Dimensions – max 69x75x26 mm
- Weight: 125 grams max
- Operating temperature: -40°C to +70°C
- Storage temperature: -40°C to +85°C

