



iRZ ATM2-232

iRZ **ATM2-232** is a dual-band (900/1800 MHz) GSM/GPRS modem developed for the transmission of data over cellular networks. The modem supports GPRS class 10 and the TCP/IP protocol stack.








iRZ **ATM2-232** automatically connects to the GPRS network and establishes a connection with the server and then maintains a permanent connection to it or runs by schedule. The user gets transparent inter-working between back-end software and an external device connected to the modem. iRZ **ATM2-232** is intended to operate in conjunction with a specialized iRZ Collector server.

The modem is equipped with a RS232 serial port (DB9) for a data cable and three additional GPIO pins used to drive external devices. The operation of the GPIO pins is controlled using SMS messages.

iRZ **ATM2-232** comes with a functionality that makes it possible to keep connected using another mobile network operator by switching to the second SIM card. The modem's functionality supports switching to a reserve server both in the event of a loss of connection with the main server and after getting a signal from the external pins of the modem or via SMS commands.

The modem is equipped with an adjustable watch-dog timer and is capable of working with a wide range of input voltages and temperatures.

iRZ **ATM2-232** is designed for use with data collection systems, process control systems, telemetry and telemechanic systems, as well as with utility metering systems.

	DUAL-BAND		GSM		GPRS CLASS 10
	iRZ COLLECTOR		DUAL-SIM		TCP/IP CONNECTIVITY
	INDUSTRIAL INTERFACES		WATCHDOG TIMER		EXTENDED TEMPERATURE RANGE



Features:

- Transparent mode TCP/IP-to-COM
- Uninterrupted or by-schedule GPRS operation
- Backup SIM card
- Operation using two servers
- Synchronization of internal clock with iRZ Collector server
- Notification of loss of GPRS connection via SMS
- Functionality of having SMS sent in the event of changes in GPIO state
- Timer-controlled restart

Frequency bands:

- 900/1800 MHz
- GPRS class 10
- TCP/IP stack

Communication standards:

- 900/1800 MHz
- GPRS class 10
- TCP/IP stack

GPIO:

- Output current over GPIO1/2 – less than 10 mA
- Output current over GPIO3 – less than 500 mA
- Functionality of having separate GPIO1/2 pull-ups or pull-downs activated

Connectors and interfaces:

- DB9 connector (RS232 interface)
- TJ6-6P6C connector for power supply connection
- Terminal connector (2 GPIO, 1 GPIO)
- Mini USB connector for unit configuration
- SMA connector for GSM antenna connection

Applications:

- Internet access
- Remote monitoring and control of technological processes
- Navigation and Logistics
- Payment and POS
- Telemetry
- Signaling
- Telephony
- Data collection

Electrical characteristics:

Supply voltage range: 7 V ... 40 V

Supply current with active GPRS less than:

- At 12 V supply voltage - 200 mA
- At 24 V supply voltage - 100 mA

Physical parameters:

- Plastic housing
- Dimension not more than: 75 x 83 x 25 mm
- Weight not more than: 120 g
- Operating temperature range: -40°C to +65°C

