

Micro Technic

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**Blackbird RTU**

The Micronix Blackbird RTU offers a unique combination of GSM/GPRS modem and I/O signals in one basic low-power PC (386 to Pentium) system. Besides the low power consumption (<10 W), the GPRS modem offers a TCP/IP connection enabling access to the Blackbird any-time and anywhere GPRS is present. It collects and logs parameters of analog or digital nature at high speeds. Logging can be triggered by time, time interval, alarms, or user defined events, and the data can be transferred through the free software or from a central SCADA system. The integrated GSM/GPRS supports Modbus RTU Communication Protocol. We also support TCP/IP connection over GPRS in Linux OS versions, which is ideal for online monitoring and transactions.

The Blackbird RTU has eight isolated analog (0-10 V) inputs, enabling data acquisition from auxiliary instruments/sensors. It also has eight digital inputs and seven digital outputs, all opto-isolated, allowing the user to control auxiliary equipment. Events can be reported through the SMS feature on the GSM modem. Micronix Blackbird RTU is ideal for all PC-based data logging and alarm systems. Blackbird RTU withstands extended temperatures, shock, and vibration of mobile equipment.

It's a combined RTU and datalogger:

- Remote datalogger for long distance data acquisition and process control
- Data transfer via TCP/IP over GPRS
- Low-power outstation
- Configuration software for setup of datalogging conditions and alarms; programmable in IEC61131 using the most popular SoftPLC on the market today

Applications:

- Machine monitoring/Remote servicing
 - Surveillance of wastewater and water treatment systems
 - Automotive computing
 - Vending machines – online payment systems
 - Parking meters and traffic information systems
 - Train level crossings
- . . . and any application where online access or a web interface is required or desirable.

**FEATURES:**

- RTU/datalogger with GSM/GPRS modem
- SMS messages, alarms, and inquiries
- TCP/IP over GPRS – always online
- Control via AT commands
- Free datalogger software, EagleLog
- One RS-232 port (standard COM port)
- CPU available from 386 to Pentium class
- Din-rail mountable sheet metal chassis
- Integrated I/O: Eight digital inputs, opto-isolated; seven digital outputs, opto-isolated; eight isolated analogue inputs, 12-bit
- Wide temperature range: -20 °C to +70 °C
- PC/104 architecture system
- Low power consumption, low cost