LBGT-69431

GPRS Data Transceiver for Remote Device Management

Overview

LBGT-69431 GPRS Data Transceiver enables various kinds of legacy devices with simple I/O and proprietary serial protocols to communicate over GSM/GPRS network and the Internet easily and freely. It not only works as a GPRS Modem, but also can cooperate with a New GPRS Gateway Software to construct a smooth "GPRS Data Tunnel" between Host End and Remote End, ensuring an efficient communication for data transmission and remote device management. With 1 selectable RS-232/485 serial port, 2 RS-232 serial ports, 6 Digital Inputs and 2 Digital Outputs, LBGT-69431 is an ideal solution for factory automation, environmental monitoring and remote device management for M2M industry. Meanwhile, it is supplied with easy-to-use API and New GPRS Gateway Software that streamline application development process, freeing system integrators from dealing with complex communication protocols of GPRS and the Internet. Users do not need to change the existing system, saving cost and time for field maintenance, and making it a perfect solution for data transmission.

Features

◆ Quad band GSM/GPRS 850/900/1800/1900MHz
◆ 1 x selectable RS-232/485 serial port, 2 x RS-232 serial port, 6 x Digital Input, 1 x Digital Output
◆ Continuous and automatic GPRS VPN Management (GPRS Data Tunnel)
◆ GUI-based Console Utility
◆ Industrial design with surge protection
◆ Easy-to-use API (VC/VB/BCB)
◆ Built-in Watch Dog
◆ Real-time Clock (RTC)
◆ Local and remote configuration over the air (OTA)
◆ Remote firmware upgrade over the air (OTA)
◆ Support Virtual COM

Benefits

◆ Industrial design with intelligent software capabilities, making it a reliable GPRS solution for data collection and transmission
◆ Connect to any serial device to GPRS and the Internet
◆ Plug-and-play design with easy-to-use API for easy integration
◆ No need to build expensive fixed line network, saving cost substantially
◆ Easily manage and control distributed remote devices over the air
◆ Reliable GPRS network connectivity, providing fast and cost-effective long-range wireless communication
### Applications

- Remote data monitor and control
- Water, gas and oil flow metering
- AMR (automatic meter reading)
- Power station monitoring and control
- Remote POS (point of sale) terminals
- Traffic signals monitor and control

### Specifications

<table>
<thead>
<tr>
<th>Processor Environment</th>
<th>Low power-consumption CPU, 128KB SRAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>4.8W (searching GPRS), &lt;1W (idle)</td>
</tr>
<tr>
<td>Frequency</td>
<td>900/1800/2100MHz/850/1900MHz</td>
</tr>
<tr>
<td>Voltage</td>
<td>9~35VDC</td>
</tr>
<tr>
<td>Data Logger Capacity</td>
<td>2MB</td>
</tr>
<tr>
<td>Firmware Upgrade</td>
<td>through serial port or by air interface</td>
</tr>
<tr>
<td>Parameter Setting</td>
<td>through serial port or by air interface</td>
</tr>
<tr>
<td>Virtual COM</td>
<td>Yes</td>
</tr>
<tr>
<td>Protocol Supported</td>
<td>TCP, PPP</td>
</tr>
<tr>
<td>GPRS Multi-slot</td>
<td>Class 10</td>
</tr>
<tr>
<td>GPRS Mobile Station</td>
<td>Class B</td>
</tr>
<tr>
<td>Code Scheme</td>
<td>CS1, CS2, CS3, CS4</td>
</tr>
<tr>
<td>PPP-Stack</td>
<td>Yes</td>
</tr>
<tr>
<td>Module Approvals</td>
<td>GCF, R &amp; TTE</td>
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<tr>
<td>RS-232/485</td>
<td>N/A</td>
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<tr>
<td>RS-232</td>
<td>2</td>
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<tr>
<td>Digital Input</td>
<td>6</td>
</tr>
<tr>
<td>Digital Output</td>
<td>2</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20°C ~ 60°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-30°C ~ 80°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>5% ~ 95% RH</td>
</tr>
<tr>
<td>Regulatory Approval</td>
<td>CE, FCC, C-Tick, RoHS</td>
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<tr>
<td>Dimensions (L x W x H) (mm)</td>
<td>92 x 86 x 62</td>
</tr>
<tr>
<td>Weight (g)</td>
<td>500</td>
</tr>
<tr>
<td>SIM Card Holder</td>
<td>3VDC</td>
</tr>
<tr>
<td>RJ-45 Connector</td>
<td>RS-232/485 x 1, RS-232 x 2</td>
</tr>
<tr>
<td>Terminal Block</td>
<td>Serial port/DIO/power</td>
</tr>
<tr>
<td>SMA F External Antenna Connector</td>
<td>Yes</td>
</tr>
<tr>
<td>DIN-rail</td>
<td>Yes</td>
</tr>
<tr>
<td>Battery (optional)</td>
<td>1000mAh</td>
</tr>
</tbody>
</table>

All specifications are subject to change without prior notice.

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**GT Series**

- Application Server
- GPRS Gateway Software
- Database

**Panel**

**Front**

- GPRS Antenna
- LED Indicator (LINK, GPRS, RUN)
- RS-232/485 (RJ-45)
- RS-232/485 (Terminal Block)
- Power

**Back**

- 6 DI and 2 DO

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**Internet**

- GPRS Gateway Software
- Database

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**Control Center Remote Site**

- GPRS Carrier Network
- GPRS Data Transceiver
- Remote Site

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**Real-time 2-way Communication**

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**Total Solution - GPRS Data Tunnel**

- Host End
- GT Series
- GPRS Data Tunnel
- Remote Site

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- Parameter Setting: through serial port or by air interface
- Virtual COM: Yes
- Protocol Supported: TCP, PPP
- GPRS Multi-slot: Class 10
- GPRS Mobile Station: Class B
- Code Scheme: CS1, CS2, CS3, CS4
- PPP-Stack: Yes
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- Digital Input: 6
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- Battery (optional): 1000mAh

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