GTM-201-RS232

Industrial Quad-band GPRS/GSM Cellular Modem with RS-232 Interface
Quick Start Guide

Product Website:
http://www.icpdas-usa.com/gtm_201_rs232.html

Package Checklist
The package includes the following items:
- One GTM-201-RS232 hardware module
- One Quick Start Manual (this manual)
- One companion CD
- One RS-232 9-pin Male-Female D-sub cable (CA-0915)
- One GPRS antenna

1. Introduction

The GTM-201 series are industrial Quad-band GSM/GPRS modems with RS-232 and USB interfaces that work on frequencies of GSM 850 MHz, EGSM 900 MHz, DCS 1800 MHz and PCS 1900 MHz. The modems utilize the GSM/GPRS network for convenient and inexpensive data transfer from remote instruments, meters, computers or control systems in either live or packet data. GTM-201 series have the integrated TCP/IP stack so that even simple controllers with serial communications ports can be connected to the modem without the need for special driver implementation. With GTM-201, systems can be SMS and GPRS connection applications with various PLC and PC's. With the voice interface, these modems can also be applied to alarm systems with sounds.
2. Terminal Assignment and Wiring Diagram
## Reset Wire Connection

<table>
<thead>
<tr>
<th>Input Type</th>
<th>Reset State ON</th>
<th>Reset State OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reset Input</td>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
</tbody>
</table>

### Reset Input

<table>
<thead>
<tr>
<th>State</th>
<th>Voltage Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>+3.5 V&lt;sub&gt;DC&lt;/sub&gt; ~ +30 V&lt;sub&gt;DC&lt;/sub&gt;</td>
</tr>
<tr>
<td>OFF</td>
<td>+1 V&lt;sub&gt;DC&lt;/sub&gt; max.</td>
</tr>
</tbody>
</table>

![Timing of restart Modem](image3)
3. Installation

➢ Connect the GTM-201-RS232 to power and PC

➢ SIM card and Antenna Installation

![Diagram showing SIM card and antenna installation](image-url)
4. Configuration

(Hyper Terminal)
Step 1. Start → All Programs →
Accessories → Communications →
Hyper Terminal → Input new connection
name → Click “OK” → Select your PC
serial port → Click “OK”

Step 2. Please refer to below settings

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bits per second</td>
<td>115200</td>
</tr>
<tr>
<td>Data bits</td>
<td>8</td>
</tr>
<tr>
<td>Parity</td>
<td>None</td>
</tr>
<tr>
<td>Stop bits</td>
<td>1</td>
</tr>
<tr>
<td>Flow control</td>
<td>None</td>
</tr>
</tbody>
</table>

Note: Please select “None” mode on the
GTW-201-RS232 SW1 Hardware

Step 3. File → Properties → Settings →
Click “ASCII Setup…” → Select “Echo
typed character locally” → OK

Step 4. Input “AT” and press “Enter”, then
you will receive “AT OK”
Create a new modem connection on PC

Step 1. Control Panel → Double-click "Phone and Modem Options" → Modem → Click "Add"

Step 2. Select "Standard Modem Types" → Select "Standard 19200 bps Modem" → Click "Next"

Step 3. Select your COM Port to connect the modem → Click "Next" → Click "Finish"

Step 4. Control Panel → Double-click "Phone and Modem Options" → Modem → Select "Standard 19200 bps Modem" → Click "Properties"
Making Data Acquisition Easy

Step 5. Control Panel → Double-click “Phone and Modem Options” → Modem → Select “Standard 19200 bps Modem” → Click “Properties” → Modem → Maximum Port Speed → 115200

Step 6. Advanced → Extra initialization commands:
Note: GPRS’s APN must be provided from your Telecom CO., LTD.
For example in Taiwan:
AT+CGDCONT=1,"IP","INTERNET"
For example in China:
AT+CGDCONT=1,"IP","CMNET"

Step 7. Diagnostics → Query Modem → Click “OK”
Note: If user queries modem that gets an Error, please try again.

Step 8. Click “OK”
Creating a new dial-up on a PC

Step 1. Control Panel → Network Connections → Click “Create a new connection” → Click “Next” → Select “Connect to the Internet” → Click “Next”

Step 2. Select “Connect using a dial-up modem” → Click “Next”

Step 3. Your GPRS’s name → Click “Next” → Phone Number → Click “Next”

Note: Phone Number must be provided from your Telecom. Co., LTD.

For example in Taiwan: *99***1#

Step 4. GPRS’s User name and GPRS’s Password → Click “Next” → Click “Finish”

Note: GPRS’s User name and GPRS’s Password must be provided from your Telecom. Co., LTD.
Step 5. Control Panel → Network Connections → Click “Your GPRS’s name” → File → Properties → General → Select “Standard 19200 bps Modem” → Click “Configure”

Step 6. Maximum speed (bps) → Select “115200” → Enable hardware flow control (Note) → Click “OK”

Note:

<table>
<thead>
<tr>
<th>Modem</th>
<th>Please select “Enable hardware flow control”</th>
</tr>
</thead>
<tbody>
<tr>
<td>GTM-201-RS232</td>
<td>“RTS/CTS” mode</td>
</tr>
<tr>
<td>GTM-201-USB</td>
<td>Please don’t select “Enable hardware flow control”</td>
</tr>
</tbody>
</table>

Step 7. Control Panel → Network Connections → Double-Click “Your GPRS’s name” → Click “Dial”

Step 8. If you connect to internet successfully, your toolbar have new logo

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