F2103 GPRS DTU SPECIFICATION

F2103 GPRS DTU adopts high-powered RISC CPU and embedded real time operating system. It integrates all the commonly used protocols from logical link layer to upper application layer protocols, such as TCP/IP/UDP and so on. It provides a secure, high speed, reliable wireless internet connection for customers. It supports several ways that trigger DTU to be online, including audio, SMS and data. Also, it supports double or several data centers.This product has been widely used on finance, water supply, environment protection, electric power system, post and weather fields.

A. Wireless Specification

1. EGSM900/GSM1800
2. GPRS multi-slot class 10
3. Compliant to GSM phase 2/2+
4. Support SMS and data function

B. Hardware System

1. high-powered MCU, 100M
2. Interface:

   RS232/RS485 serial port, rates: 110~230400bits/s

   Indicator lights: "Power", "ACT", "Online"

   Antenna interface: standard SMA female interface, 50 ohm

   SIM/UIM interface: standard user card interface

   Power interface: standard 3-PIN power jack
3. Power supply:

   Standard power supply: DC 12V/0.5A

   Power range: DC 5~35V
4. Wireless module:

High-powered industrial GPRS module

5. Size:

   Outline dimension: 91x58.5x22 mm

6. Weight: 630 g

7. Others:

   Operation temperature: -25~+65°C

   Storage temperature: -40~+85°C

   Humidity: 95% (unfreezing)

C. Software function

1. Design with standard TCP/IP protocol stack
2. Adopt smart online keeping technology to make sure that DTU is always online
3. Support RSA and RC4 encryption arithmetic
4. Support APN
5. Support transparent data transfer and protocol conversion. Support multi work modes
6. Support dynamic domain name(DDNS) and IP access to data center
7. Support double data centers, one main and another backup
8. Support multi data centers, It can support 5 data centers at the same time.
9. Support multi online trigger ways, including SMS, audio and data. Support link disconnection when timeout
10. Support SMS backup and emergency report
11. Support hardware and software WDT
12. Reporting the status of data transfer
13. Standard AT command interface
14. Support common MODEM function
15. Support telnet function
16. Support remote configure and control
17. Easy to upgrade firmware
18. Support multi OS, such as WINDOWS, LINUX, SCO UNIX etc.