

Product Introduction

D12 Series GPRS DTU enables various kinds of legacy devices with serial port to communicate over cellular network and the Internet easily and freely. It not only works as a cellular Modem, but also can construct a smooth "cellular Data Tunnel" between Host and Remote side, ensuring an efficient communication for data transmission and remote device management.



With the selectable RS-232/TTL/485 serial port, D12 Series GPRS DTU is an ideal solution for factory automation, environmental monitoring and remote device management etc. Meanwhile, it is supplied with simple Software interface that streamline application development process, freeing system integrators from dealing with complex communication protocols of GPRS/CDMA 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.

Application

- 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
- Fleet management
- Power distribution network supervision
- Central heating system supervision
- Weather station data transmission
- Hydrologic data acquisition
- Vending machine
- Traffic info guidance
- Parking meter and Taxi Monitor
- Telecom equipment supervision (Mobile base station, microwave or optical relay station)

Benefits and Features

- Industrial design with intelligent software capabilities, making it a reliable GPRS solution for data collection and transmission
- Plug-and-play design with easy-to-use software interface for easy integration
- No need to build expensive fixed line network, saving cost substantially
- Built-in Watch Dog
- Real-time Clock (RTC)
- Connect to any serial device to GPRS and the Internet

- ☉ Support TCP,UDP, DNS,PPP,DHCP and so on.
- ☉ Reliable GPRS network connectivity, providing fast and cost-effective long-range
- ☉ Always-On-Line/on Demand
- ☉ Sleep mode supported
- ☉ wake up Remotely (SMS or Voice call)
- ☉ Support APN
- ☉ Industrial design with surge protection

Specification

Wireless	
Compatible Mobile Networks	GPRS Class10 Coding scheme : CS1 - CS4
Cellular Frequency	D12S211 GSMphase2/2+, GSM900MHz/GSM1800MHz D12Z111 GSM phase 2/2+, GSM850MHz/EGSM900MHz/DCS1800MHz/PCS1900MHz
Protocol	
Protocol Support	TCP/IP protocol stack
Bandwidth	Class 10: GPRS 4:1: Down-link : 85.6kbps Up-link : 21.4kbps GPRS3:2: Down-link : 64.2kbps Up-link : 42.8kbps
Baud Rate	1200~115200bps
Interface	
Antenna	50Ω SMA female interface
Serial port	DB9 (RS232, RS485, TTL option)
Led	Power Ring Data
UIM/SIM	1.8V/3V
Power	
Power supply	DC5V-25V , typical DC9V1A
Power consumption	peak current : 5A@+9VDC work average current : 300mA@+9VDC Idle average current : 3.5mA@+9VDC
Software	
User Interface	AT/AT+I Command Set
Physical	
Operating Temperature	D12S211 work temperature : -20℃-55℃ D12Z111 Work temperature : -30℃-75℃ storage temperature : -40℃-85℃
Humidity	90% Maximum (Non-condensing)

Dimensions	Item (L x B x H): 75mm x 50mm x 16mm (5.3" x 3.7" x 1.4") Packaging (L x B x H): 260mm x 190mm x 65mm (10.3" x 7.5" x 2.6")
Weight	Item: 550g Packaging: 690g
Electronic Compatibility	Anlistatig test : Class 3 Radio electromagnetism test : Class 3
Others	
Warranty	1 Year
Package Contents	The D12 Series DTU DB9 Serial Cable DC 9V1A Power Adapter Antenna CD-ROM with Product Documentation

Products models

D12S211 GPRS DTU, Siemens MC39i module,

D12Z111 GPRS DTU, ZTE ME3000 module

D12N211 GPRS DTU, NEOWAY M580i module