

Product Introduction

D12C1 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, D12C1 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
- Plug-and-play design with easy-to-use software interface for easy integration
- No need to build expensive fixed line network, saving cost substantially
- Easily manage and control distributed remote devices over the air
- Built-in Watch Dog
- Real-time Clock (RTC)
- Remote firmware upgrade over the air (OTA)
- Connect to any serial device to GPRS and the Internet
- Reliable GPRS network connectivity, providing fast and cost-effective long-range
- Always-On-Line/on Demand mode
- Sleep mode supported
- wake up Remotely (SMS or Voice call)
- Local and remote configuration over the air
- Multi-destination IP supported

Specification

Wireless	
Cellular network support	GSM/GPRS
Frequency bands:	GSM 850\E-GSM 900\DCS 1800\PCS 1900
Transmit power:	Class 4 (2 W) at GSM 850 and E-GSM Class 1 (1 W) at DCS and PCS
GPRS	GPRS multislot class 10 Multislot class 2 supported PBCCH support Coding schemes: CS1 to CS4
Bandwidth	GPRS 4:1 Down-link: 85.6kbps Up-link: 21.4kbps GPRS 3:2 Down-link: 64.2kbps Up-link: 42.8kbps
Protocol	
Protocol Support	TCP,UDP, DNS,PPP,DHCP
APN	Supported
Max Package	1460Bytes
Interface	
Antenna	50Ω SMA female interface
Serial Port	DB9 (RS232/RS485/ TTL option) 1200~115200bps

LED	Power LED Ring LED Data LED
SIM slot	1.8V/3V
Power	
Power supply	DC5V-25V , typical DC 9V1A
Power Consumption	Peak: 0.8A@+9VDC Average: 30mA@+9VDC Idle: 3.5mA@+9VDC
Software	
User Interface	AT Command set
Embedded Development Environment	Support(32M FLASH and 16M RAM) Open AT API develop kit
Physical	
Operating Temperature	work temperature: -30~85℃
Humidity	90% Maximum (Non-condensing)
Dimensions	Item (L x B x H): 75mm x 50mm x 16mm(5.3"x3.7"x1.4") Packaging (L x B x H): 260mm x 190mm x 65mm(10.3"x7.5"x2.6")
Weight	Item: 200g Packaging: 690g
Electronic Compatibility	Anlistatig test: Class 3 Radio electromagnetism test: Class 3
Others	
Warranty	1 Year
Package Contents	The D12C Series DTU DB9 Serial Cable DC 9V/1A Power Adapter Antenna CD-ROM with Product Documentation

Products models

D12C111 GPRS DTU, Wavecom module,RS-232 interface

D12C121 GPRS DTU, Wavecom module,RS-485 interface