

## Product Introduction

D13V116 CDMA DTU data terminal is a high-performance, exceed stable, suitable for use in various environments of data transmission end products. Product design, the kernel module based on CDMA ARM9 using high-performance embedded processors, with real-time operating system as the software platform, embedded TCP/UDP protocol stack. Products with high performance to price, Consumption of traditional DTU products only 1/10.

D13V products for users provide high speed, stable and reliable data transmission, various protocol

conversion of virtual private network. Product support data, telephone, SMS trigger online automatic bolt and overtime. Support double data center, and data backup center synchronous data transmission etc. Function. Can rapidly connect RTU, PLC, work-managing machine equipment, realize remote serial data transmission to the Internet transparent, widely used in wireless POS terminals, electric power meter, power distribution automation, lamp, road traffic and weather monitoring environmental protection, water conservancy, oil and coal hydrological industries such as remote 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)

## Function and Features

### Product function

- ◇ embedded PPP, the TCP/IP protocol stack
- ◇ transparent data transmission and protocol conversion
- ◇ support fixed IP address data center
- ◇ support dynamic IP address data center DNS domain addressing
- ◇ CDMA1X data communication and SMS backup
- ◇ support point-to-point, point-to-multipoint, center of multi-point equivalence, real-time data transmission
- ◇ can remote terminal customer site management, configuration and inquires parameters
- ◇ data transmission delay is less than 1 second
- ◇ support and public network operators APN network
- ◇ supports remote software upgrades
- ◇ support wide voltage range input
- ◇ intelligent power management technology
- ◇ support external power supply switch control
- ◇ standard antenna and UIM card interface
- ◇ networking simple, quick and flexible, through the Internet network covering the

whole anytime constructing virtual mobile data communication in China, to provide users with special network access convenient and save access investment.

## Product features

- ◇ industrial design, satisfy the need of severe environment

Industrial devices

Aluminium shell, surface oxidation and thermal treatment and esd protection

Industrial-class wireless CDMA module, embedded real-time operating system

A wide range of input voltage, power interface, it is applicable for various occasions

- ◇ inline various communication protocol

Standard TCP/IP, UDP/IP protocol

AT extended instructions

Support VPDN mode dial

Support multiple PPP, CHAP authentication, PAP

Support functions, on-demand DHCP fixed IP management

- ◇ a variety of work mode

Never online mode: equipment boot automatically, according to data connection CDMA network business center of IP address data center, and automatic connection link connection keep and maintain DTU, monitoring, single network link situation happened to be abnormal DTU, link.

Timing transmission mode: according to advance to send data set of data between sending data and business center after receiving data, data transceiver, automatic bolt.

Call center initiated by data center mode: data transfer request, and DTU response transmit/receive data.

Process: when the center to collect the data or send DTU, data center, immediately

call instructions DTU 1X CDMA network connection and log data center, the business center of installation instructions data transmission.

Dormancy trigger mode: dormant, dormancy of online data trigger voice, text, ringing sensei online.

Node pattern: numerous according to transfer system, wireless transmission part closed in a suspended state,

The command control according to the needs, referrals.

Data backup, and messages are automatically switch

Data link back to test

✧ support various communication

Four data centers and communication

Support for data centers are the backup communication

Each data communication center can separately defined

✧ flexible use of data communication

TCP/IP, UDP/IP, SMS, AT various communication mode

Can define transparent communication or agreement

Can define last time intervals. Bag

Can define specific separator control data

Can define reconnection interval, prevent traffic blast

Can be defined intervals and package format. Beat

✧ parameters and remote management

Provide parameters and inquires the menu

PC configuration program

Data centers server remote parameter configuration

SMS remote configuration parameters

User-defined protocol configuration parameters

AT extended instructions

## Specification

| Wireless                 |  |
|--------------------------|--|
| Cellular Frequency       | CDMA 450、800 or 1900Mhz                                |
| Protocol                 |  |
| Protocol support         | TCP/UDP protocol stack                                 |
| Baud rate                | 1200~115200bps   |
| Interface                |  |
| Antenna                  | 50 Ω SMA female interface                              |
| Serial port              | TTL/RS-232/RS-485/USB                                  |
| Led                      | Power<br>Ring<br>Data                                  |
| UIM                      | 1.8V/3V  |
| Power                    |  |
| Power supply             | DC4V-39V , typical DC9V500mA                           |
| Power consumption        | work average current: 500mA@+9VDC                      |
| Software                 |  |
| User Interface           | AT extended instructions                               |
| Physical                 |  |
| Operating Temperature    | Work temperature: -25℃~70℃                             |
| Humidity                 | 95% Maximum (Non-condensing)                           |
| Dimensions               | Item (L x B x H): 96mm x 60mm x 20mm (without antenna) |
| Weight                   | Item: 40g  |
| Electronic Compatibility | Anlistatig test: Class 3                               |

|                         |  |
|-------------------------|--|
|                         | Radio electromagnetism test: Class 3   |
| <b>Others</b>           |  |
| <b>Warranty</b>         | 1 Year   |
| <b>Package Contents</b> | The D1 Series DTU<br>DB9 Serial Cable<br>DC 9V500mA Power Adapter<br>50 Ω SMA female interface |

## Products models

D13V116 WEISHENG C200+ CDMA TTL/RS-232/RS-485/USB