

WL-D801-2

Industrial cellular data terminal RS232



Single Serial Port



Dual Serial Port

The rugged D80 series DTU (Data Terminal Unit) which is a cellular modem have been developed especially for M2M application. It provides RS232/RS-485/RS-422/TTL interface and equipped with PPP, TCP/IP and DDP protocol, it could convert the user data into 3G, EDGE or GPRS network and transmits the data to the customer's data service center through complete transparent data channel, allows a simple and rapid integration of cellular network connectivity into M2M application. With the robust, reliable, long life and compact metal case design, the D80 DTU ideally adapts to onboard standard, easy to deploy and maintenance, it has been widely applied in many fields worldwide, such as power SCADA, oil field, coal mine, weather forecast, environment protection, water conservancy, heating, natural gas, petroleum and so on.

Product Features

Optimized EMC design

Standard PPP, TCP/IP and UDP/IP protocol

Industrial pluggable terminal block

Industrial 3G/EDGE/GPRS cellular module

Support APN and VPDN wireless private network

Support short message service (SMS)

Support transparent data transmission

Support data service center with dynamic IP address

Support LED status indication

Wide range voltage input

Smart power management

External power on/off control

Reliable, flexible and easy to deploy

Enhanced Features

Multiple Operation Model

- Always online: automatically attaches GPRS/CDMA 1x when powered on automatically redials when off line and keep line alive
- Offline when idle and triggered online by user data, ring or SMS
- GPRS/CDMA 1x channel and SMS mutual backup
- Online/offline control by commands via user equipment
- Data loop test

Multiple data service centers communications

- Supports up to 4 data service centers communications
- Supports main/backup data service centers communications
- Supports customized setting for each data service center

Flexible and utilitarian data communications

- Supports TCP/IP, UDP/IP, DDPTM, SMS and AT
- Self-defines transparent or protocol communications
- Self-defines customized data frame separator
- Self-defines reconnecting interval
- Self-defines heart-beat data frame

Parameters configuration and remote management

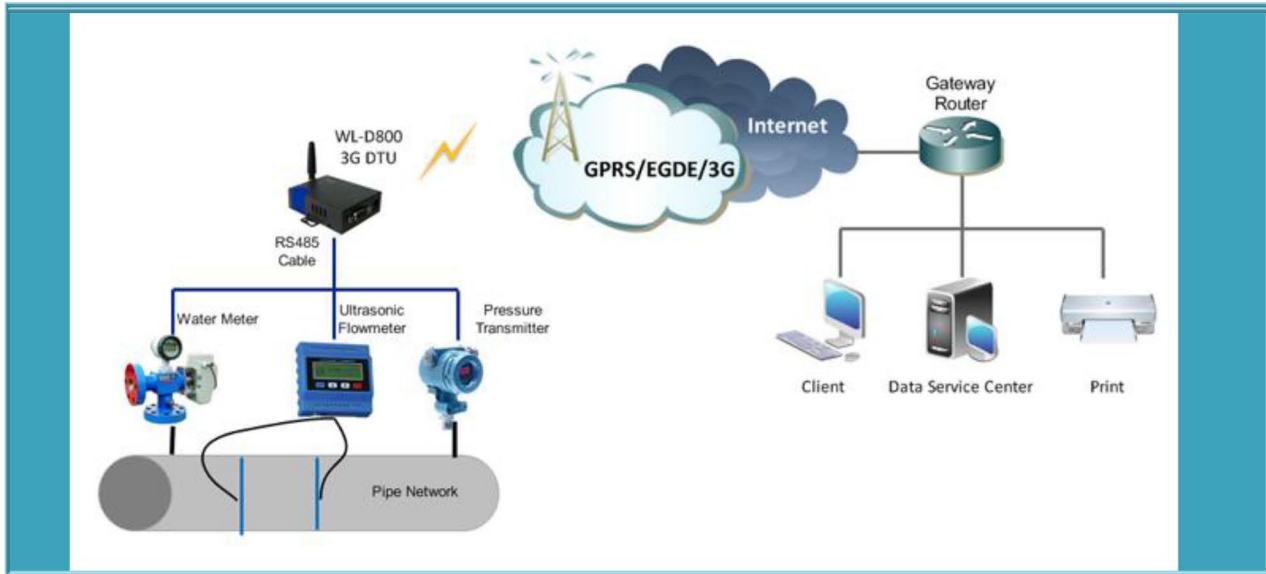
- Built-in parameters configuration menu
- Configuration tool based on PC
- Remote parameters configuration via data service center
- Remote parameters configuration by SMS
- Parameters configuration via AT+ commands

Full function data service center development kits

- Provides function development package
- Provides complete sets of demo source code (VB, VC, C#, Delphi, VB.net)
- Provides data forwarding service center for data transparency forwarding

Typical Application

- Power SCADA
- Oil field
- Coal mine
- Weather forecast
- Environment protection
- Water conservancy
- Heating, natural gas
- Petroleum



Specifications

Cellular

- GSM/GPRS Protocol, 3GPP version 4
- Frequency Band: WCDMA/UMTS 2100/1900/900/850Mhz, GSM 850/900/1800/1900Mhz
- Output Power \times WCDMA: 24dBm (Power Class3)
- GPRS/GSM: 33dBm (Power Class4) \times GPRS/EDGE: Class 2, Class B
- Sensitivity: WCDMA 3GPP TS 25.101(R6) GSM/GPRS 3GPP TS05.05(R99)
- IEEE 802.3u \times Rate: 300-115200bps

Consumption

- Voltage: DC +5~26V (standard 12V/1A power adapter)
- SIM/R-UIM Card: 3V
- Consumption Transfer mode: 70Ma/12v (Average), Idle mode: 17mA/12V (Max)

Interface

- Antenna: SMA-K(Female)
- Standard SIM/R-UIM interface
- Serial data interface:
 - Single Port type RS-232/RS-485/RS-422/TTL, DB9 connector
 - Dual Port type: RS-232 + RS-485, Terminal block connector

Others

- Dimension: 70.5mm x 55.5mm x 22mm (not including antenna)
- Weight: 150g (not including accessories)
- Operation temperature: -30~+75°C
- Store temperature: -40~+85°C \times Related humidity: <95% (non-condensing)
- Guarantee: one year