

OVER VIEW

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.





Single Serial Port

Dual Serial Port

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 trigged 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

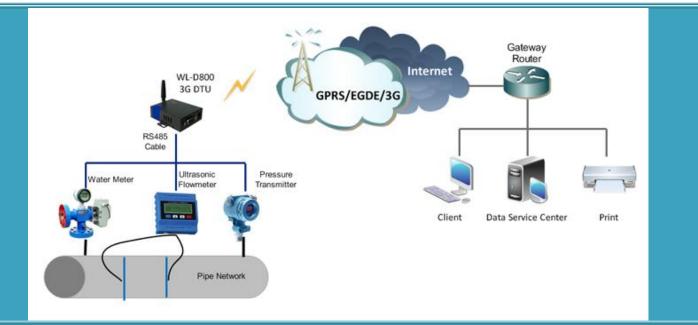
- Provides function development package
- Provides complete sets of demo source code (VB, VC, C#, Delphi, VB.net)
- Provides data forwarding service center for data transparency forwarding

TYPICAL APPLICATION

- Power SCADA
- Oil field,
- Coal mine,
- Weather forecast,

- Environment protection,
- Water conservancy,
- Heating, natural gas,
- Petroleum.





Specification GSM/GPRS Protocol, 3GPP version 4 Frequency Band: WCDMA/UMTS 2100/1900/900/850Mhz, GSM 850/900/1800/1900Mhz **Output Power** WCDMA: 24dBm (Power Class3) Cellular GPRS/GSM: 33dBm (Power Class4) GPRS/EDGE: Class 2, Class B Sensitivity: WCDMA 3GPP TS 25.101(R6) GSM/GPRS 3GPP TS05.05(R99) IEEE 802.3u Rate: 300-115200bps • Voltage: DC +5~26V (standard 12V/1A power adapter) SIM/R-UIM Card: 3V Consumption Consumption Transfer mode: 70Ma/12v (Average), Idle mode: 17mA/12V (Max) Antenna: SMA-K(Female) Standard SIM/R-UIM interface 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 Dimension: 70.5mm x 55.5m x 22mm (not including antenna) Weight: 150g (not including accessories) **Others**

Operation temperature: -30^+75° C Store temperature: -40^+85° C

Guarantee: one year

Related humidity: <95% (non-condensing)

RS-TTL

RS-232

RS-485

RS-TTL

1xRS-232

1xRS-485 1xRS-232

1xRS-485

1xRS-232

1xRS-485



Ordering Information

WL-D80-34-T

WL-D80-4-2

WL-D80-4-4

WL-D80-4-T

WL-D80-1-24

WL-D80-3-24

WL-D80-4-24

HSDPA

FDD-LTE, TDD-LTE

FDD-LTE, TDD-LTE

FDD-LTE, TDD-LTE

FDD-LTE, TDD-LTE

GPRS/EDGE

HSDPA

Part Number Network Interface **Frequency Band** WL-D80-1-2 GPRS/EDGE 850/900/1800/1900MHz RS-232 WL-D80-1-4 GPRS/EDGE 850/900/1800/1900MHz RS-485 WL-D80-1-T **GPRS/EDGE** 850/900/1800/1900MHz **RS-TTL** WL-D80-3-2 RS-232 **HSDPA** 900/2100MHz or 850/1900MHz WL-D80-3-4 **HSDPA** RS-485 900/2100MHz or 850/1900MHz WL-D80-3-T **HSDPA** 900/2100MHz or 850/1900MHz RS-TTL WL-D80-34-2 **HSDPA** 850/900/1900/2100MHz RS-232 WL-D80-34-4 **HSDPA** 850/900/1900/2100MHz RS-485

850/900/1900/2100MHz

850/900/1800/1900MHz

1800/2100/2600MHz (Band 1,3,7)

1800/2100/2600MHz (Band 1,3,7)

1800/2100/2600MHz (Band 1,3,7)

900/2100MHz or 850/1900MHz

1800/2100/2600MHz (Band 1,3,7)

1900/2300/2600MHz (Band 38.39.40.41)

1900/2300/2600MHz (Band 38.39.40.41)

1900/2300/2600MHz (Band 38.39.40.41)

1900/2300/2600MHz (Band 38.39.40.41)

Note:

The above list includes partial of WLINK models only, please consult WLINK sale person or distributor if can't find a suitable model from the above list.