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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.



Dual Serial Port

Single 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

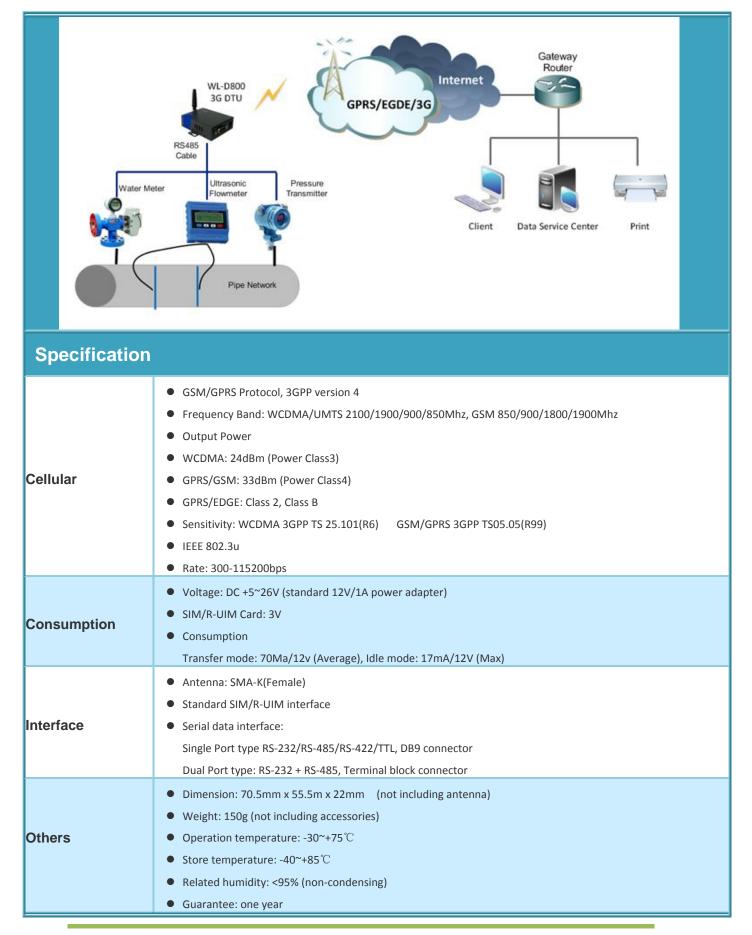
- Provides function development package
- Provides complete sets of demo source code (VB, VC, C#, Delphi, VB.net)
- Provides data forwarding service center for data transparency forwarding

TYPICAL APPLICATION

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

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

WL-D80 DTU Datasheet



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Ordering Information			
Part Number	Network	Frequency Band	Interface
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	HSDPA	900/2100MHz or 850/1900MHz	RS-232
WL-D80-3-4	HSDPA	900/2100MHz or 850/1900MHz	RS-485
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
WL-D80-34-T	HSDPA	850/900/1900/2100MHz	RS-TTL
WL-D80-4-2	FDD-LTE, TDD-LTE	800/900/1800/1900/2100/2300/2600MHz (Band 1,3,5,7,8,20,38.40,41)	RS-232
WL-D80-4-4	FDD-LTE, TDD-LTE	800/900/1800/1900/2100/2300/2600MHz (Band 1,3,5,7,8,20,38.40,41)	RS-485
WL-D80-4-T	FDD-LTE, TDD-LTE	800/900/1800/1900/2100/2300/2600MHz (Band 1,3,5,7,8,20,38.40,41)	RS-TTL
WL-D80-1-24	GPRS/EDGE	850/900/1800/1900MHz	1xRS-232 1xRS-485
WL-D80-3-24	HSDPA	900/2100MHz or 850/1900MHz	1xRS-232 1xRS-485
WL-D80-4-24	FDD-LTE, TDD-LTE	800/900/1800/1900/2100/2300/2600MHz (Band 1,3,5,7,8,20,38.40,41)	1xRS-232 1xRS-485

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.