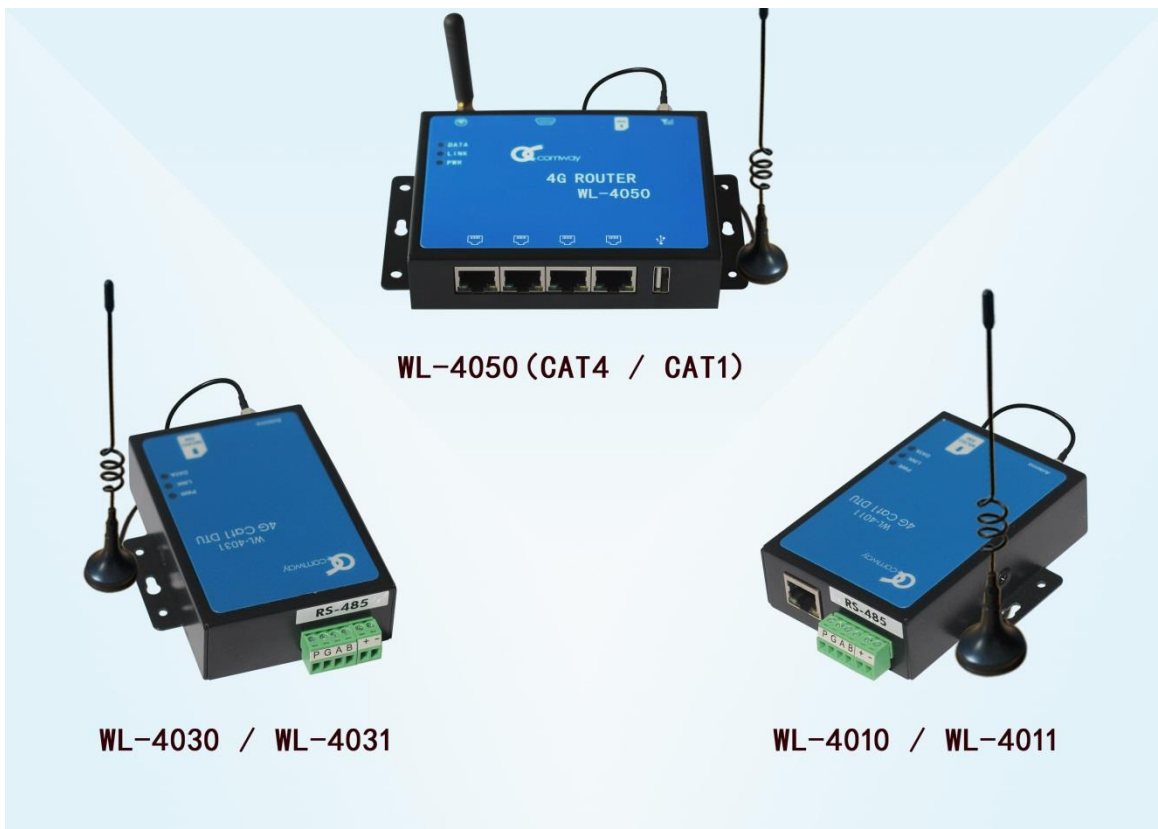# Comway 4G LTE series DTU Data Sheet

Brief

Comway 4G LTE series DTU adapts to the development of wireless network, provides greater communication bandwidth, smaller communication delay and richer communication interfaces for Internet of things communication, enables data acquisition and video monitoring to be realized through a 4G DTU, makes PLC remote download program simple and easy, and meets the new needs of customers. It is the driving force for Comway to move forward.

Product model：

	4G CAT4	4G CAT1	GPS&Beidou Positioning	DI /DO
4 Ethenet+1 serial	WL-4050-485/232-CAT4	WL-4050-485/232-CAT1		
1 Ethenet+1 serial	WL-4010-485/232	WL-4011-485/232	WL-4020-485/232	WL-4010/4011-DO
1 serial	WL-4030-485/232	WL-4031-485/232	WL-4030/4031-GPS	WL-4030/4031-4DI

Features:

◆ Cat4 mode：LTE-FDD、LTE-TDD、TD-CDMA、WCDMA、CDMA2000、CDMA、GPRS

◆ Cat1 mode：LTE-FDD、LTE-TDD、WCDMA、GPRS

◆ One 10 / 100MB Ethernet port and one serial port (RS-485 / RS-232). Configure various parameters of DTU through serial port, WiFi and network port

◆ Support TCP / UDP, multiple socket protocols and multi server parallel communication

- Comway Protocol
- Standard TCP/UDP Protocol

◆ Support mqtt, HTTP protocol and customized protocol to facilitate communication with multiple platforms

◆ Routing internet access function: DTU can be used as a routing gateway to establish communication between its connected Ethernet equipment and the Internet

◆ Port mapping: supports external network access to intranet devices

◆ VPN communication function: realize PLC and HMI program download based on VPN network, connect network port HD camera, and remote video monitoring as immersive

◆ Has the conversion function of Modbus TCP and RTU protocol: it is easy to connect Ethernet devices such as PLC through network port

◆ Online network management is realized through Netview software

Specifications

ITEM	Technical parameter
Mobile parameters：Cat4	4G:LTE-FDD、LTE-TDD
	3G：WCDMA、TD-CDMA、CDMA2000
	2G: GPRS、CDMA
Mobile parameters：Cat1	4G:LTE-FDD、LTE-TDD
	3G：WCDMA
	2G: GPRS
SIM parameters:	SIM Control: 1.8v and 3v Micro Sim 卡
Socket Protocol:	Comway，standard TCP/UDP，MQTT,Http
Data format:	Support modbus rtu/tcp and any others

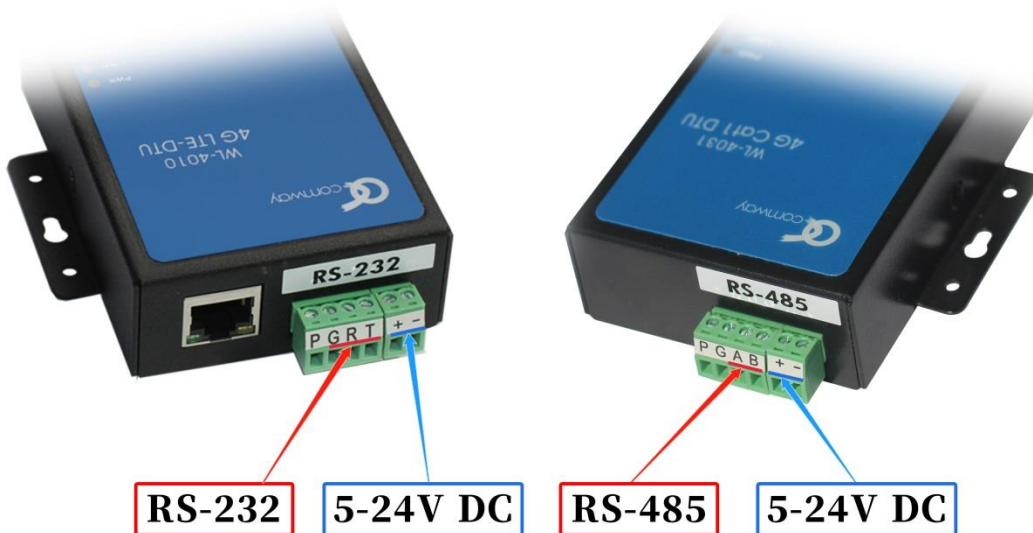|	
Ethernet Port:	Four/one port 10/100MB
Serial Port:	one port RS-232/RS-485
Serial port pin definition:	RS-232: TxD, RxD, GND
	RS-485: A, B
DTU Poweron control pin	P pin, high-level startup, low-level shutdown
Overall dimensions and materials:	108x74x35mm，The shell material is iron
Weight：	220g
Working parameters：	working temperature：-30° to 75°
	Working humidity：5 to 95%RH
Power requirements：	input voltage：5 to 24 VDC
	Average operating current：60~150mA@ 12V
	Maximum operating current: 1A@+12V DC
	Shutdown leakage current: 20uA@+12V DC

Specific messages of mqtt and HTTP protocols need to be modified and customized.

Download of technical document：

4G DTU Application Notes

4G DTU Configuration Introduction

DTU pin definition:

DTU indicator definition

Indicator Status	Description
PWR twinkle	4G network registration failed
PWR、LINK twinkle	4G network registration failed
PWR Continuous light	4G network registration succeeded
LINK twinkle	Connecting to server
LINK Continuous light	Successfully connected to the server
DATA twinkle	Sending and receiving data

Outline dimension drawing of DTU(except WL-4050 series)

There are installation positioning holes on the left and right sides of DTU. The specific installation dimensions are shown in the figure below: