

# DH Communication Transfer system

(CTS-B1.0)

## Manual



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# 1、 Overview

Communication transfer system (CTS-B1.0) can transfer several protocol to CAN2.0A.

Like: TCP/IP, USB, RS485, I/O;

Only one mode can be used at a same time.

# 2、 Mode Select

CTS-B1.0 use DIP switch to select mode.

The switch is up to “ON”, replaced by 1; The switch is down to “OFF”, replaced by 0.



Example: Mode 1, the first switch need to be “ON”, DIP switch status must be “1 0 0 0”

As shown in the table below:

Switch status(index)	Mode	Switch status(index)	Mode
0 0 0 0 (0)	Setting mode	0 0 1 0 (4)	RS485 mode
1 0 0 0 (1)	USB mode	1 0 1 0 (5)	Reserve
0 1 0 0 (2)	TCP Client mode	0 1 1 0 (6)	I/O mode
1 1 0 0 (3)	TCP Server mode	1 1 1 0 (7)	CAN2.0A mode

After you switch it to another mode, you must to reboot it (include unplug USB cable).

Before using, you need to connect all the cables first, and switch to the appropriate mode, finally turn on the power (CTS-B1.0 will recognize the gripper during the boot process).

(Note: under USB mode, the USB cable must be plugin last after turn on the power)

Some modes have some parameters that can be set, you can switch it to “Setting mode”, and then use the “Tester.exe” to set them.

### 3、 Default parameter

Here are some default parameters, TCP parameters which can be set by using "\*\_Tester.exe".

#### TCP Server mode:

IP address: 192.168.1.29  
Gateway: 192.168.1.1  
Port: 8888

#### TCP Client mode:

IP address: 192.168.1.30  
Gateway: 192.168.1.1  
Remote IP: 192.168.1.60  
Remote Port: 8888

#### USB mode (Virtual COM port):

Baud Rate: 115200  
Data Bits: 8bits  
Parity: No Parity  
Stop Bits: One Stop bit

#### RS485 mode:

Baud Rate: 115200

#### CAN2.0A mode:

CAN ID: 1  
CAN Baud Rate: 500Kbps

The screenshot shows a software window titled "Communication box". It contains two sections: "TCP Server" and "TCP Client". Each section has input fields for "IP Address", "Gateway", and "Port". The TCP Server fields are set to 192.168.1.29, 192.168.1.1, and 8888 respectively. The TCP Client fields are set to 192.168.1.30, 192.168.1.1, and 8888. Each section also has a "Save" button below the fields.