



BUENO ELECTRIC

Bridge-200T

Intelligent CAN-BUS Repeater Datasheet

CAN Bus Bridge-200T

Intelligent CAN-BUS Repeater

Product Datasheet/Manual

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CAN Bus Bridge-200T

Chapter 1 Product Overview

1.1 Introduction

The Bridge-200T allows the coupling of two CAN networks. It has two more powerful features (Extend network distance and Connect two networks with different baudrate).

Unlike a CAN Repeater, which only translates the electric signals, the CAN messages are received completely by the Bridge-200T and then send to the other CAN network in line with existing filter and conversion rules (Store-Forward principle). With the aid of conversion rules (gateway tables), CAN messages can be filtered or forwarded under another identifier. With these mechanisms, the bus load can be reduced in the individual networks by only sending messages which are of interest to the other network.

1.2 Appearance



Figure 1-2-1 Appearance of Bridge-200T

1.3 Parameters

CAN Bus Bridge-200T

- **32-bit high-performance RISC ARM processor operating at a frequency of up to 120 MHz**
- **Max data flow up to 6500 fps (extend frame) for all CAN channels**
- **1000 data frames buffer for each channel**
- **Integrates 2-channel CAN ports**
- **Rotary switch or RS232 port for CAN baudrate configuration**
- **CAN filter is configurable**
- **2500V isolation for all can channels**
- **Fully compatible with the CAN 2.0A and 2.0B**
- **Build-in switch to select 120Ω terminal resistor**
- **LED indicator for TX, RX and Error for all channels**
- **Powered by DC :10 to 30V**
- **Operating temperature: -20°C to +70°C**
- **Physical size: (length) 147mm * (width) 122mm * (height) 36mm.**

1.5 Typical applications

- **CAN-bus network diagnosis and test**
- **Auto electronic applications**
- **Electric power communication network**
- **Industrial control devices**

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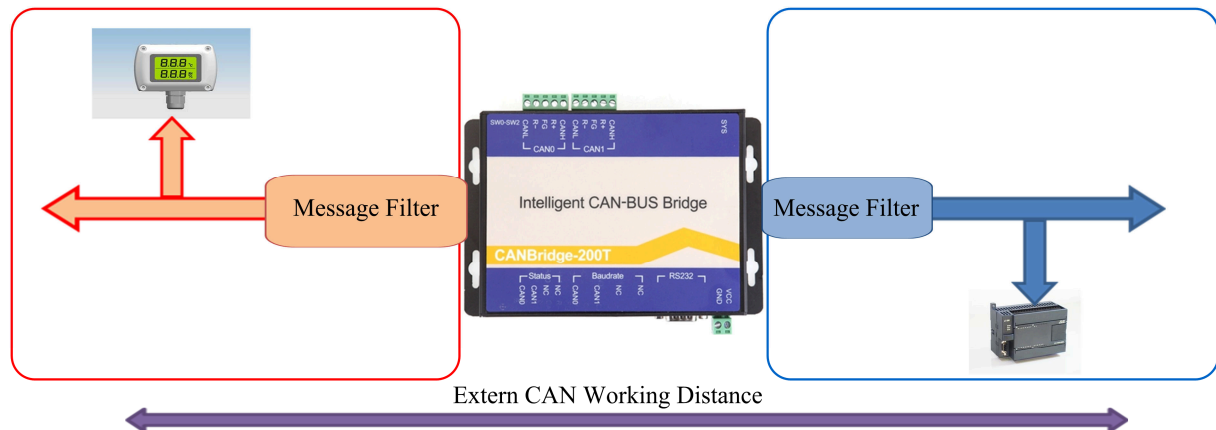


Figure 1-5-1 Typical application of Bridge-200T

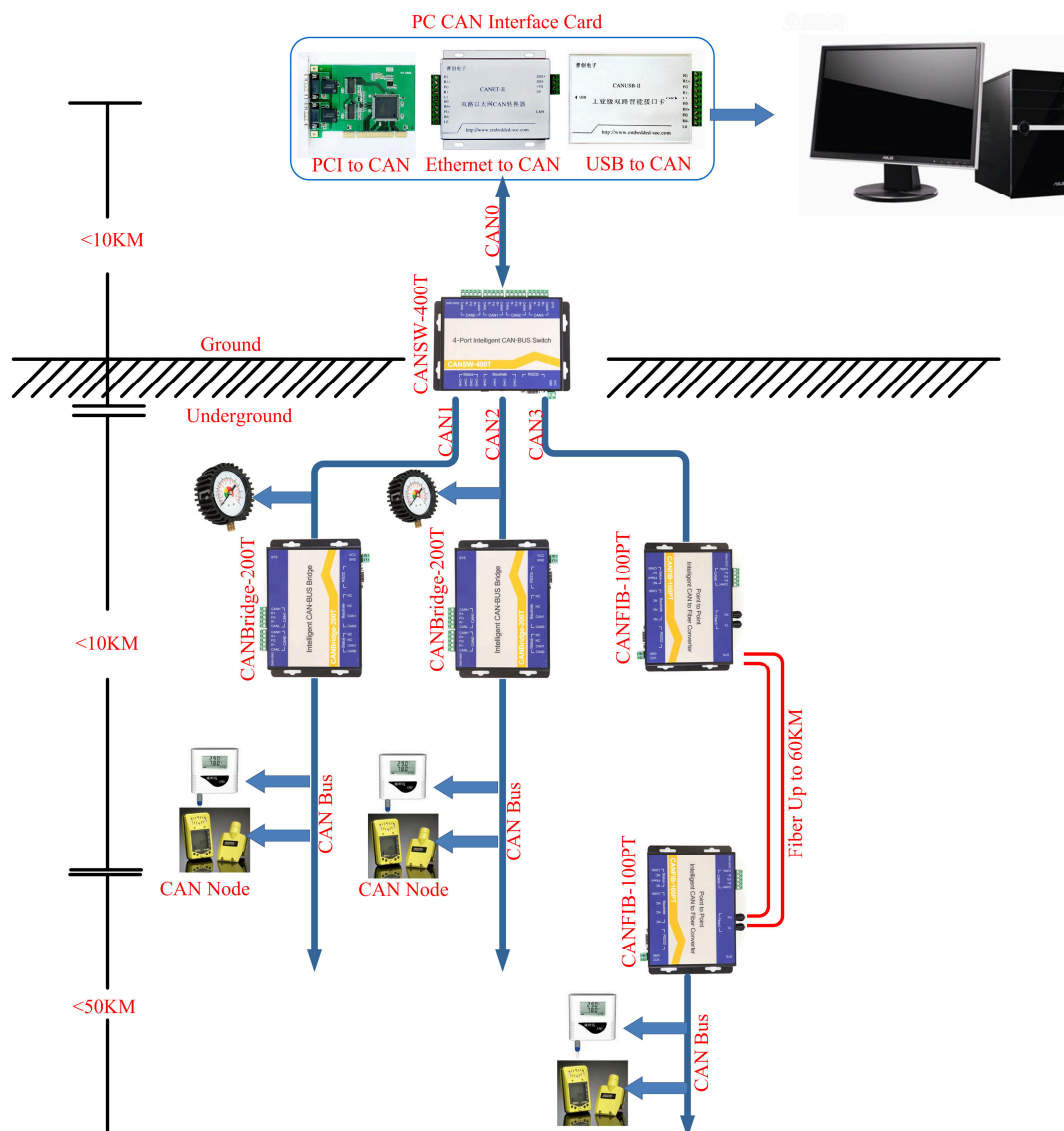


Figure 1-5-2 Typical application of series product

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1.6 Ordering Information

Part Number	Operating temperature	Description
Bridge-200T	-20℃～+70℃	Intelligent CAN-BUS Bridge

1.7 Product Sales list

- **Intelligent CAN-BUS Bridge**
- **CD-ROM(Datasheet, Config software)**

1.8 Support Information

Technical Support Mail: sales@buenoptic.net

Web site: <http://www.buenoptic.net>

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Chapter 2 Hardware Description

2.1 Mechanical Dimensions

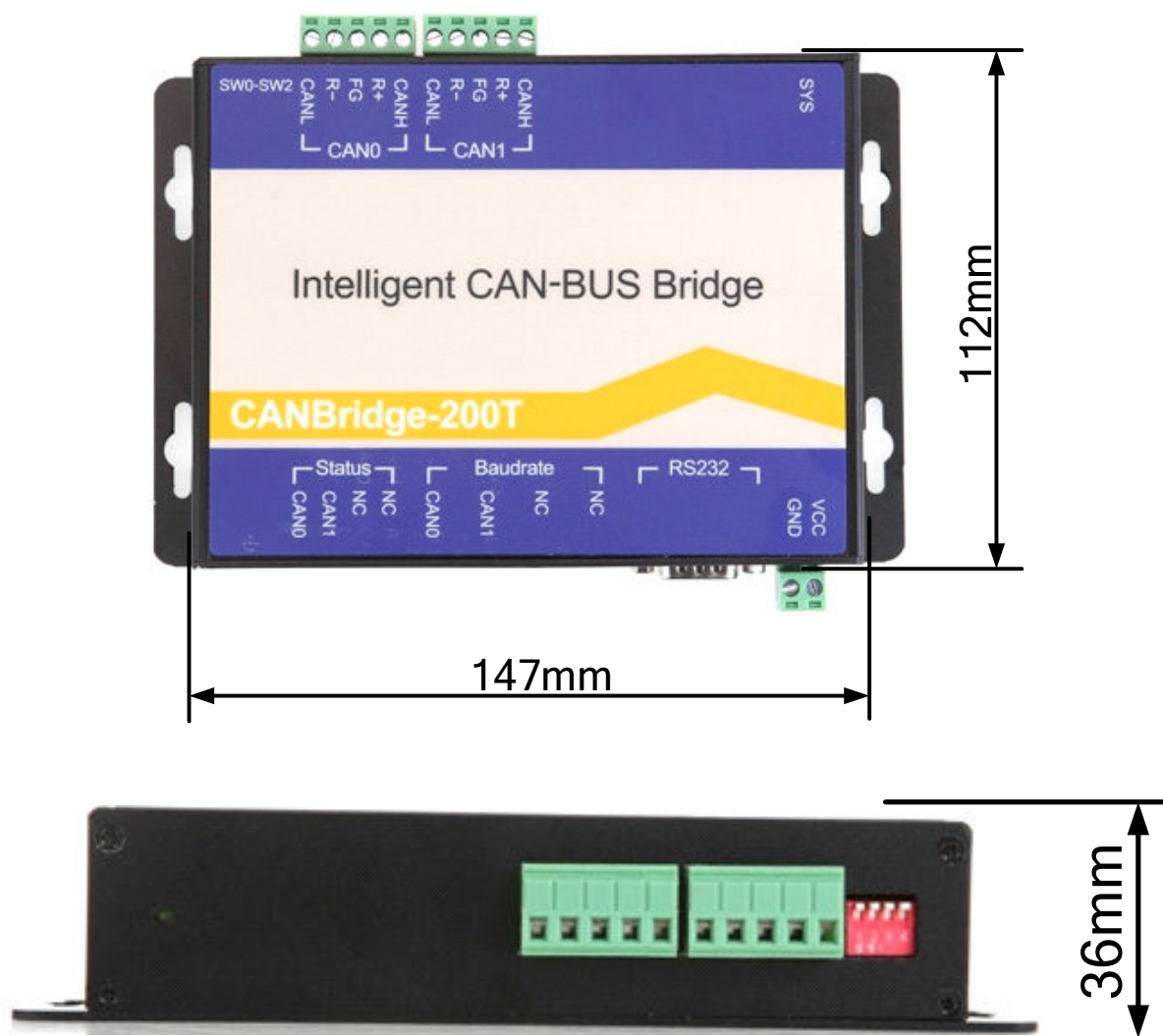


图 2-1-1 Mechanical dimensions of Bridge-200T

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2.2 Interface Description

2.2.1 Interface Label

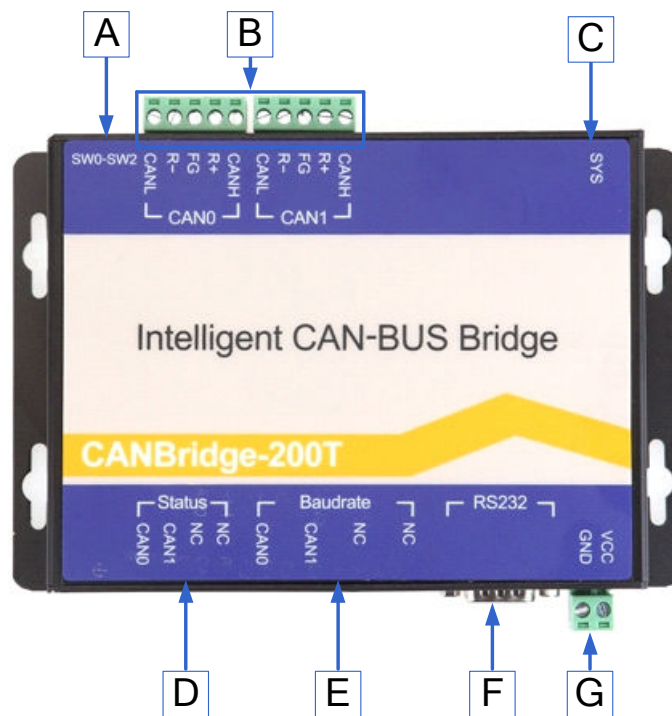


Figure 2-2-1-1 Interface of device

Table 2-2-1-1 Interface function of device

Label	Function
A	DIP Switch for Terminal Resistor
B	CAN Interface
C	Run LED
D	Status LED
E	Rotary Switch for Set CAN Baudrate
F	RS232 Interface for Configure Device
G	Power Interface

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2.2.2 CAN Interface

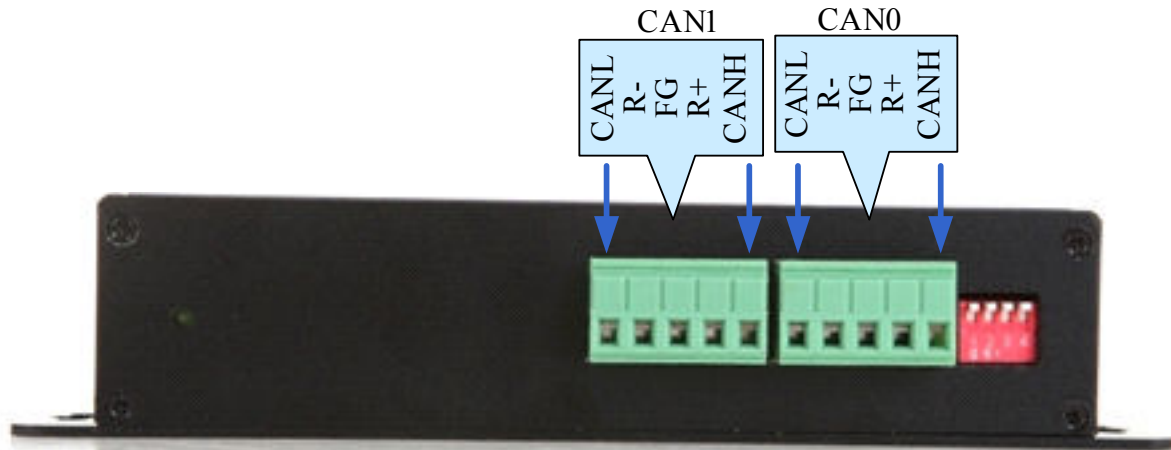


Figure 2-2-2-1 CAN Interface

2.2.3 DIP Switch



Figure 2-2-3-1 DIP Switch

2.2.4 Status LED



Figure 2-2-4-1 Status LED

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2.2.5 Rotary Switch

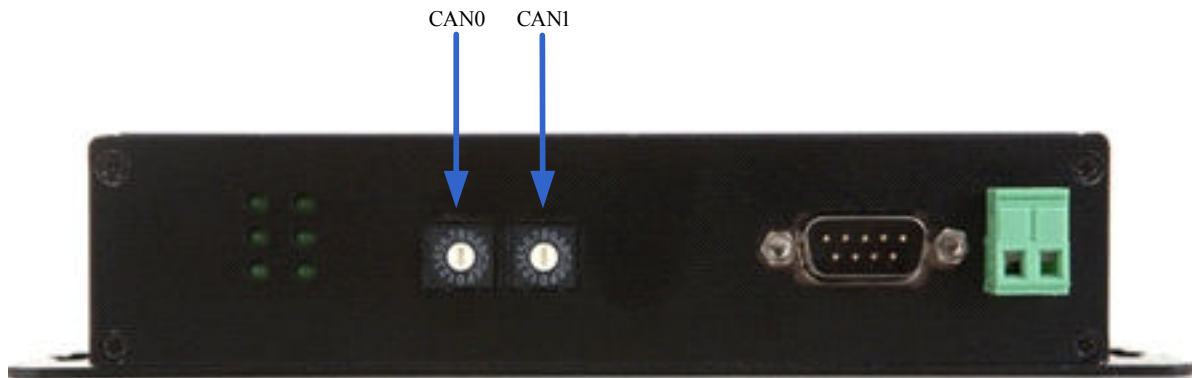


Figure 2-2-5-1 Rotary Switch

Table 2-2-5-1 CAN Baudrate Set

Rotary Switch Code	CAN Baudrate
F	Configure by software
E	5Kbps
D	10Kbps
C	20Kbps
B	40Kbps
A	50Kbps
9	80Kbps
8	100Kbps
7	125Kbps
6	200Kbps
5	250Kbps
4	400Kbps
3	500Kbps
2	666Kbps
1	800Kbps
0	1000Kbps

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2.2.6 RS232 Interface

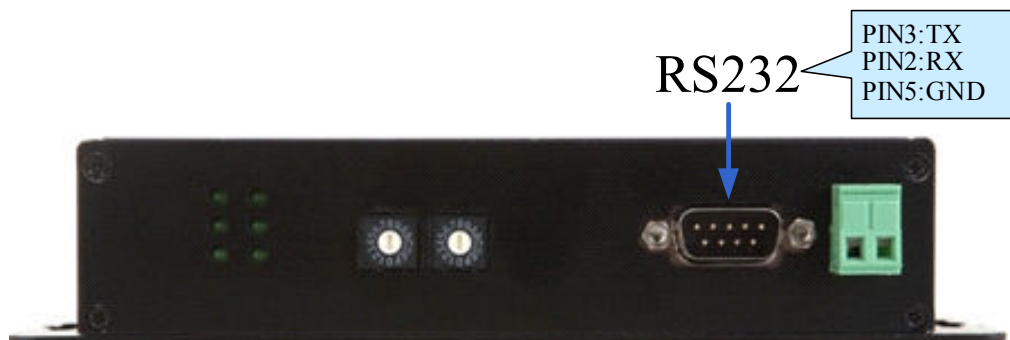


Figure 2-2-6-1 RS232 Interface

2.2.7 Power Interface



Figure 2-2-7-1 Power Interface

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Chapter 3 Configuration Software

3.1 Software Overview

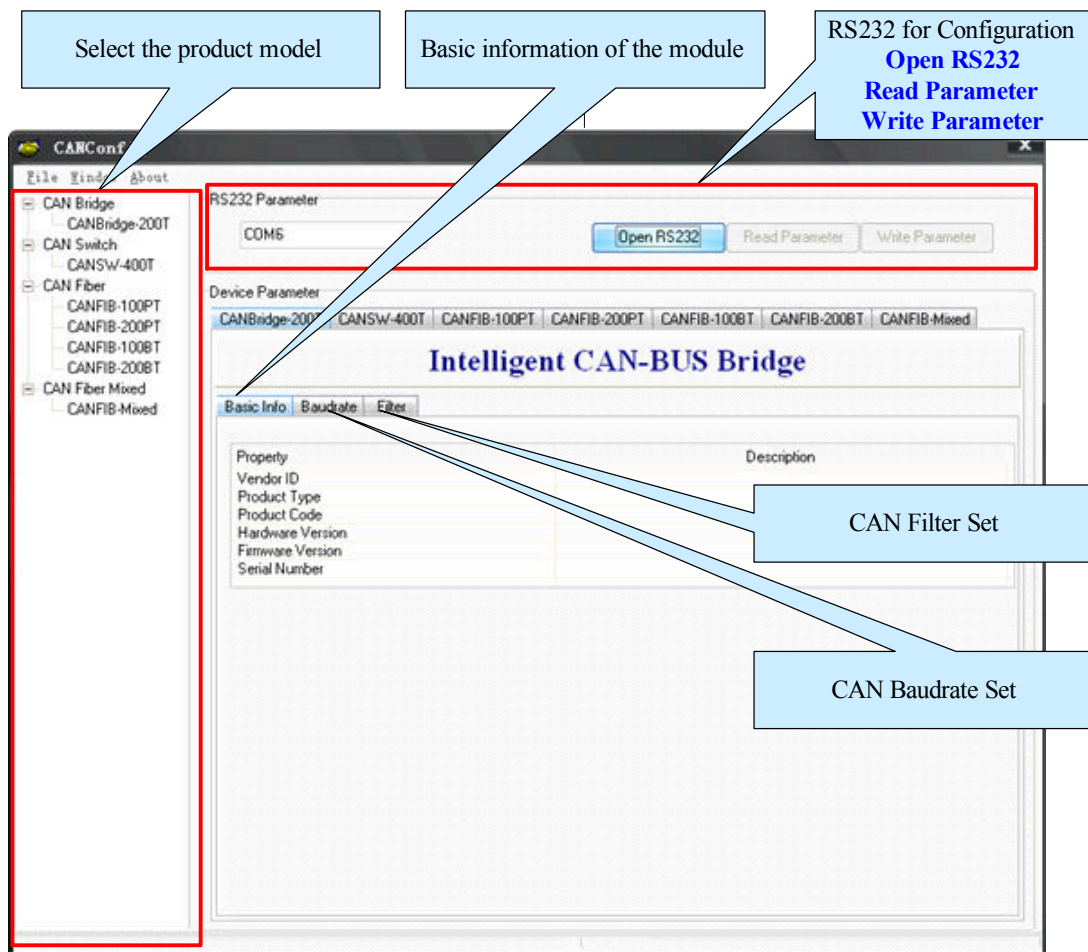


Figure 3-2-1 Configuration Software Interface

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3.2 Parameter Set

3.2.1 CAN Baudrate

Note: For some none standard baudrate , you can calculate the BTR 0 and BTR1 easily by our software , and you should set the code of Rotary Switch to “F” .

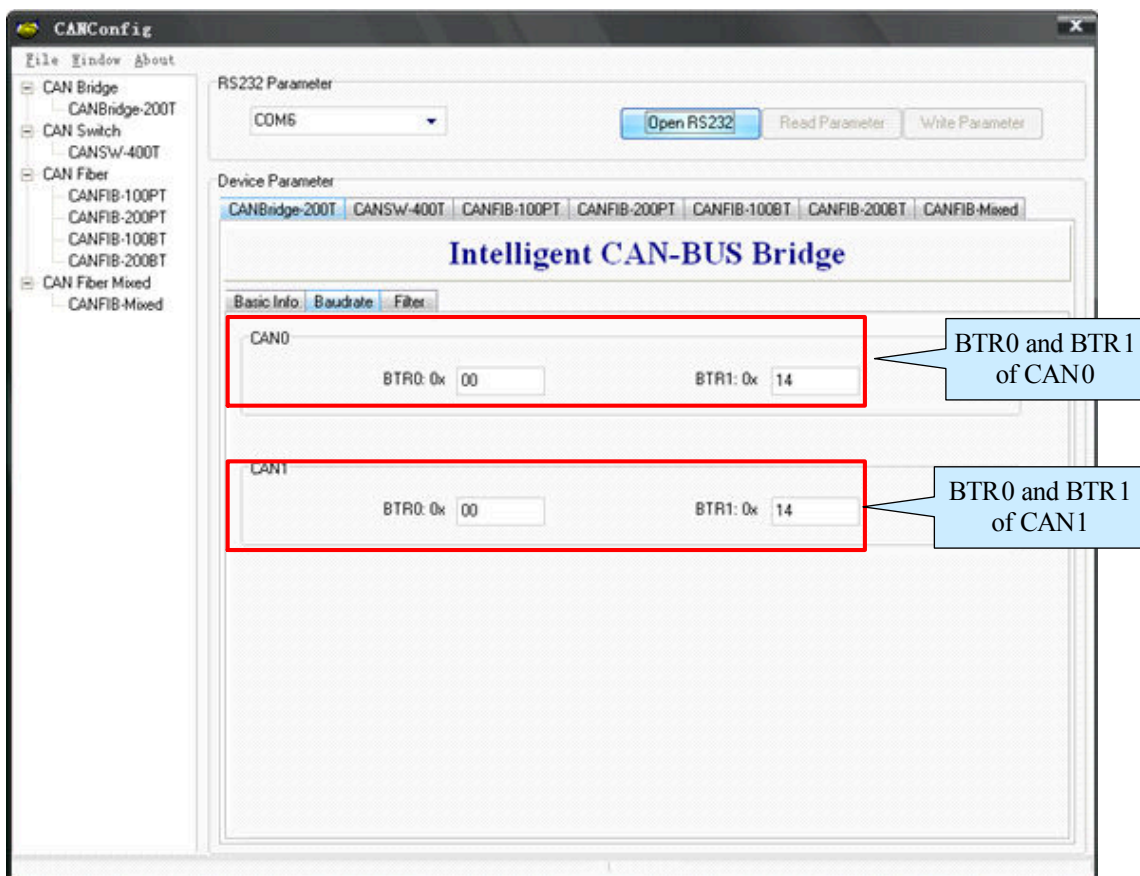


Figure 3-1-2-1 CAN Baudrate Set

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3.2.2 Filter

Note: First, you can add the filter frame ID to the list. Next, Click the button of Write Parameter to transfer the parameter to the device.

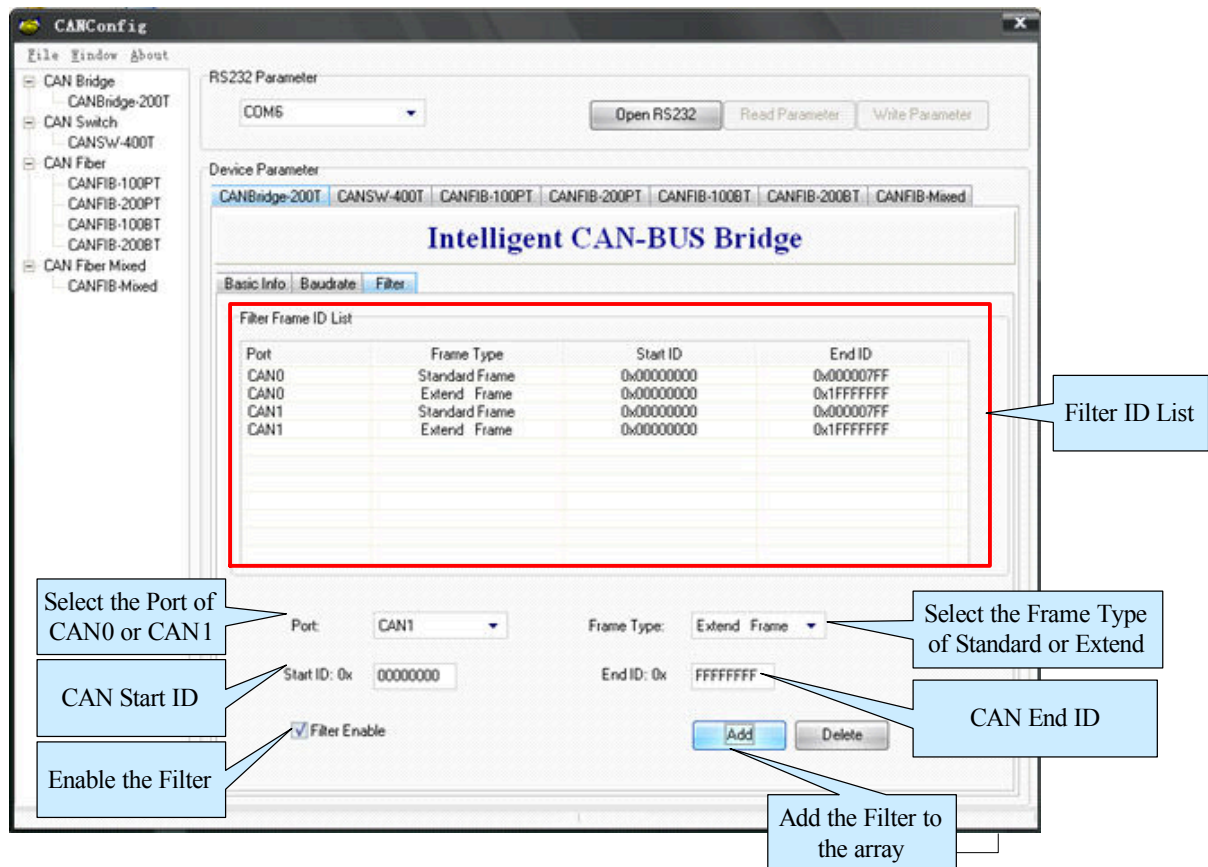


Figure 3-1-3-1 CAN Buadrate Set