

User Manual

ECAN-U01S



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1. Introduction

1.1. Brief Introduction

ECAN-U01S is a high-performance CAN-bus communication analyzer with integrated 2 - way CAN interface. The analyzer is compatible with the USB2.0 bus full-speed specification, and the PC terminal can be quickly connected to the CAN-bus network through the USB interface to form data processing in the field of fieldbus laboratories, industrial control, intelligent communities, automotive electronic networks and other CAN-bus network fields. CAN-bus network control node for data acquisition.



ECAN-U01S is a powerful tool for CAN-bus product development and CAN-bus data analysis. At the same time, it has the characteristics of small size, plug and play, etc. It is also the best choice for portable system users.

ECAN-U01S is powered by DC socket and has its own B -type USB interface; each channel has a built-in 120 ohm optional resistance, which is controlled by a DIP switch, which is convenient to use; integrated CAN interface electrical isolation protection module to avoid instantaneous overcurrent / Overvoltage will cause damage to the equipment and enhance the reliability of the system in harsh environments.

ECAN-U01S can use the general test software independently developed by our company, and can perform functions such as sending, receiving and monitoring CAN-bus messages.

1.2. Features

- PC interface conforms to the USB2.0 full-speed specification and is compatible with USB1.1;
- 2 way CAN-bus interface, use plug-in terminal wiring method;
- CAN2.0A and CAN2.0B frame format, in line with ISO /DIS 11898 specification;
- The baud rate of CAN-bus communication can be freely programmable between 5Kbps~1Mbps;
- Use USB bus power supply, or use external power supply (DC8-28V);
- received data flow: 17000fps;
- The time stamp accuracy of the received message at the CAN end can reach 1us;
- Support remote upgrade;
- Support testing software;
- Operating temperature range: -40 $^{\circ}$ C ~+85 $^{\circ}$ C.

2. Quick Start

1. You need to prepare ECAN-U01S analyzer power adapter type B USB data cable.

First, the analyzer is installed with a power supply, and the user can choose USB bus power supply or power adapter power supply according to their needs.



2. Connect the computer to the device through a Type B USB cable;

Open the debugging software, and enter the communication interface after configuring parameters such as the CAN baud rate of the device in the configuration interface;

(II) EBY		Device Manag	e Send Data	Bus Ratio	88 SettingHelp		×
Deviec Co	onnected:	Time Format: System	RT Sar	ve Save	Clear Pause		
Index	Time	Chan Frame ID	FrameTy RT	Len Data			
		Device Manage				×	
		Port Chose COM6		Oper	Device Close Devic	e	
					Deschar Court		Free Country 0
					Receive Count	is: 0 Transmit Counts: 0	Error Counts: 0

Connect the external CAN device to the analyzer. When ECAN-U01S is connected to the CAN bus, you only need to connect CAN_H to CAN_H and CAN_L to CAN_L to establish communication.

Demonstration: Connect the CAN analyzer hardware, open the software and there will be a setting interface as shown in the figure below.

(((o))) EBYTE	CAN	X Device Manage	Send Data	H Bus Ratio	SettingHelp		<u>– </u>
Deviec Connected:	Time F	ormat: System	RT Sav	re Save	Clear Pause		
Time Index	Cha	n Frame ID I	FrameTy RT ALL 🖌 ALL 🗸	Len Data			
	P	Device Manage		Open	Device Close Devia	×	
					Receive Cour	its: 0 Transmit Counts: 0) Error Counts: 0

Select Device Management to enter the configuration interface, as shown below:



① "Select port number ": You need to select the serial port number corresponding to the device.

(2) "Open Device " button: Click this button to access the USBCAN device. If "USB device open error! " is displayed, please check whether the device selected in ① is correct, and whether the driver in the device manager is installed correctly.

③ ③the channel baud rate: This drop-down box can select the device CAN baud rate. The baud rate is very important

for the communication of the CAN bus. Before communication, you need to determine the baud rate of the target device or the target bus. Support 5k-1000k, support custom baud rate.

Device M	anage				×
Port Chose	COME		Ŧ	Open Device	e Close Device
Device M	odel				
Device M	ode ECA	N-U01			
Channel N	Nun 2				
Vanian	1/1 (,			
version.	VI.	,			
Channel C	Control				
CH1:	Baud F	1000kbps	_	Open Channel	Close Channel
CH2:	Baud F	1000kbps 800kbps 500kbps	1	Open Channel	Close Channel
		250kbps			
		125kbps			
		100kbps			
		50kbps			
		20kbps		Receive	Counts: 0 Tran
		TUKbps		Receive	counter o man
		Skbps			

If you are using a special baud rate, please click the Customize button. At this time, you need to enter a decimal baud rate. The following table lists the values of some special baud rates. Select a suitable configuration.

波特率に	「昇諾				
aud Ra !	5kbps	•			Calc
Index	Baud Rate	PRE	TBS1	TBS2	SMP
Cancle					Confirm

Please note that it is especially important to set the baud rate. Many customers report that there is no data after the device is connected, or the bus is wrong. In fact, the baud rate is not set, so click OK to open the device. Here to remind you, whether you use our device as a master or a slave device, as long as you connect the device to the CAN bus, you must set the baud rate of the device to be consistent with the baud rate of the target device before it can work normally.

④ Open channel button: You can open the CAN channel here.

After the device parameters are set, the software will enter the working state. If there is data on the bus, the data will be displayed in the receive data window. The receiving window is shown in the following figure:

((EB		N	X Device Manage	Send	- Data	В	us Ratio	Set	88 tingHelp				×
Deviec C	Connected:ECAN-U01	Time Fo	ormat: System	<u>-</u>	RT Sav	re	Save	Clear	Pause				
Index	Time	Char	Frame ID	FrameTy	RT	Len	Data						
12	10:57:05.765	1	0x123	STD	Rx	3	C2 00 00						
11	10:57:05.765	1	0x123	STD	Rx	8	81 55 OF 0	00 00 00	04 02				
10	10:57:05.639	1	0x123	STD	Rx	3	C2 00 00						
9	10:57:05.639	1	0x123	STD	Rx	8	81 55 OF (00 00 00	04 02				
8	10:57:05.508	1	0x123	STD	Rx	3	C2 00 00						
7	10:57:05.508	1	0x123	STD	Rx	8	81 55 0F (00 00 00	04 02				
6	10:57:05.372	1	0x123	STD	Rx	3	C2 00 00						
5	10:57:05.372	1	0x123	STD	Rx	8	81 55 OF (00 00 00	04 02				
4	10:57:05.228	1	0x123	STD	Rx	3	C2 00 00						
3	10:57:05.228	1	0x123	STD	Rx	8	81 55 OF (00 00 00	04 02				
2	10:57:05.060	1	0x123	STD	Rx	3	C2 00 00						
1	10:57:05.060	1	0x123	STD	Rx	8	81 55 OF (00 00 00	04 02				
									Receive Coun	ts: 12	Transmit Counts: 0	Error Counts:	0

3. Installation size

Equipment dimensions: (length, including terminals) mm * (width) mm * (height) mm , the schematic diagram is shown in Figure 2.1.



Figure 2.1 Dimensions of ECAN-U01S

4. Interface definition & LED

ECAN-U01S integrates 1 - way USB interface, one-way DC8-28V auxiliary power interface, one reset button, 2 - way standard CAN-bus interface and 2 - way 120 Ω matching resistance dial code. The CAN-bus interface is derived from a 6 - pin plug-in terminal, which can be used to connect two CAN - bus networks or devices with CAN-bus interfaces.

The position and definition of each interface of ECAN-U01S are shown in the figure.



Pins	Port	Name	Function
(from left to right)			
1	DC 8-28V	DC8-28V	USBCAN auxiliary power supply, generally do
			not need to be connected
2	USB	USB	USBCAN power supply, connect with
			computer
3	Indicator light	Indicator light	Device indicators, see below for details
4	Reload	Factory reset	Press and hold for more than 5s to restore
		button	factory settings
5		CAN1_L	CAN1_L signal line (CAN low)
6	CAN1	CAN1_P	Shield
7		CAN1_H	CAN1_H signal line (CAN high)
8		CAN2_L	CAN2_L signal line (CAN low)
9	CAN2	CAN2_G	CAN-GND ground
10		CAN2_H	CAN2_H signal line (CAN high)
11	RES1	RES1	CAN1 channel 120 ohm matched resistance
			switch

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12	RES2	RES2	CAN2 channel 120 ohm matched resistance
			switch

ECAN - U01S has 1 PWR indicator, 1 Work indicator, 1 CAN1 indicator, and 1 CAN2 indicator to indicate the running state of the device.

The specific indication functions of these 4 indicator lights and the status of the CAN bus when these 4 indicator lights are in various states are shown in the following table.

Indicator light	Color	State	Indicate status
DWD	Ded	Bright	Power supply is normal
PWK	Ked	Not bright	Power supply failure
		Always	Device initialization passed, standby
		bright	state
Work	Blue	Not bright	Device initialization failed
		Flicker	There is a software calling device on
		I'IICKCI	the PC side
		Not bright	CAN channel no data transmission
		Flashing	Corresponding CAN channel has data
CAN1、CAN2	Green	green	transmission
		Steady green	Corresponding to CAN channel bus
		Steady green	error

After the ECAN-U01S is powered on, the four indicators light up at the same time, and then the PWR and Work lights are always on, but the CAN1 and CAN2 lights are off, indicating that the device has been powered and the system has completed initialization; otherwise, it indicates that there is a system power failure or other failures.

After the USB interface is connected normally, when the PC software calls the USBCAN device, the USB signal indicator Work will flash. At this time, when CAN1 or CAN2 has data to send and receive, the corresponding CAN1 and CAN2 indicator lights will flash. If Work is flashing but the CAN1 or CAN2 indicator is off, it means that there is no data in the CAN channel, please check whether the wiring, communication baud rate, matching resistance, etc. are correct.

5. Technical indicators

No.	Name	Specification	Illustrate
1	Size	102*64*24mm	See installation dimensions for details
2	weight	115g	Weight tolerance 5g
3	Operating temperature	-40°C~85°C	Meet the needs of industrial use
4	Voltage	8~28v DC	12V or 24V recommended

General Specifications

5	Communication Interface	USB	Type B USB interface	
6	CAN baud rate	Factory default 100K		

6. Equipment usage

6.1. Connect with PC

The USB interface of ECAN-U01S conforms to the USB2.0 full-speed protocol specification, and can communicate with PCs with USB1.1 and USB2.0 standards.

6.1.1. USB Bus Power Mode

The USB bus powered mode is suitable for most applications, for example, when the ECAN-U01S is the only device connected to the USB port. Connect the PC and ECAN-U01S directly through the supplied USB cable, and supply +5V power to ECAN-U01S from the USB cable . At this time, the indicators PWR and Work are on, indicating that the device is working normally and is in the state to be connected.

6. 1. 2. External power supply mode

The external power supply mode is suitable for the occasions where the PC uses a USB bus hub (HUB), or has connected multiple USB terminal devices, so that the USB port cannot provide enough current to the ECAN-U01S.

Use an external power supply (DC8-28V) to connect to the power socket of ECAN-U01S, at this time the indicators PWR and Work are on ; then connect the PC and ECAN-U01S through the supplied USB cable, ECAN-U01S can work normally.

6.2. Connectwith CAN-bus

When ECAN-U01S is connected to the CAN bus, you only need to connect CAN_H to CAN_H and CAN_L to CAN_L to establish communication.

The CAN-bus network adopts a linear topology, and the two farthest terminals of the bus need to be installed with 120 Ω terminal resistance; if the number of nodes is greater than 2, the intermediate node does not need to be installed with a 120 Ω terminal resistance. For branch connections, its length should not exceed 3 meters. The connection of CAN-bus is shown in the figure.



6.3. CAN bus terminating resistor

In order to enhance the reliability of CAN communication and eliminate the reflection interference of the CAN bus terminal signal, the two farthest end points of the CAN bus network are usually added with a terminal matching resistor, and the value of the terminal matching resistor is determined by the characteristic impedance of the transmission cable. For example, the characteristic impedance of the twisted pair is 120Ω , then the two endpoints on the bus should also integrate 120Ω termination resistors.

Note: ECAN-U01S has integrated 120Ω terminal resistance, you can choose whether to connect the resistance to the bus through the DIP switch, the DIP switch is next to the 6pin terminal, R1, R2 correspond to the terminal resistance of CAN1, CAN2, dial to ON position to enable the resistor.



7. Function details

7.1. Save data and real-time save function

The user can save all the data in the current send / receive list to the local. The save format is shown in the following table:

file type	file format	editor
Text file	.txt	notepad

The text file is convenient for data preservation, and can be formatted and imported into excel for later analysis.

Click "Real-time save " on the toolbar, set the text type and file name of the real-time save, and then start the data real-time save function (ie, set the save node A), click again (ie, set the save node B), the system will stop saving, All

data from the start (A) to the end (B) are written to the save file.

() EB		Ŋ	X Device Manage	Se	nd Data		👯 Bus Ratio	SettingHe	р — — × — — — — — — — — — — — — — — — —
Deviec (Connected:ECAN-U01	Time F	ormat: System	•	RT Sav	/e	Save	Clear Pau	se6
Index	Time	Cha	n Frame ID	FrameTy ALL	∙ RT • ALL •	Len	Data		□ 5673 ← → ↑ ↑ → 此电路 → 本地磁盘 (F) → 亿佰特 → ECAN-U01
12	10:32:18.855	1	0x123	STD	Rx	3	C2 00 00	D	
11	10:32:18.855	1	0x123	STD	Rx	8	81 55 OF	00 00 00 04 02	○ 文档 ★ ECAN-101生产研究
10	10:32:18.335	1	0x123	STD	Rx	3	C2 00 00	D	■ 图片 オ GC-USBCAN V502 V4.0
9	10:32:18.335	1	0x123	STD	Rx	8	81 55 OF	00 00 00 04 02	C31-M1(CJX # conengines
8	10:32:17.806	1	0x123	STD	Rx	3	C2 00 00	0	CAN-W01策划 language
7	10:32:17.806	1	0x123	STD	Rx	8	81 55 OF	00 00 00 04 02	ECAN-U01 platforms
6	10:32:17.304	1	0x123	STD	Rx	3	C2 00 00	D	手册配图 Fmonuppert resource
5	10:32:17.304	1	0x123	STD	Rx	8	81 55 OF	F 00 00 00 04 02	OneDrive styles
4	10:32:16.078	1	0x123	STD	Rx	3	C2 00 00	D	WPS网曲 F册配图
3	10:32:16.078	1	0x123	STD	Rx	8	81 55 OF	F 00 00 00 04 02	🛄 此电脑
2	10:31:54.141	1	0x123	STD	Rx	3	C2 00 00	D	
1	10:31:54.140	1	0x123	STD	Rx	8	81 55 OF	00 00 00 04 02	文件名(N):
									保存类型(T): *.txt
									▲ 隐藏文件夹
🥘 保	存发送数据.txt - 记事本								– 🗆 X
文件(F)) 编辑(E) 格式(O) 3	适着(V)	帮助(H)						
date	2022-07-28 10:34	:10							î
base	hex timestamps s	ystem	n toltal 12						
versio	on 1.0								
by-Cl	nengdu Ebyte Ele	ctroni	c Technolog	y Co,L	td				
10:31	:54.140 1 0x123 S	TD Rx	8 81 55 OF	00 00 0	00 04 02				
10:31	:54.141 1 0x123 S	TD Rx	3 C2 00 00						
10:32	:16.078 1 0x123 S	TD Rx	8 81 55 OF	00 00 0	00 04 02				
10:32	:16.078 1 0x123 S	TD Rx	3 C2 00 00						
10:32	:17.304 1 0x123 S	TD Rx	8 81 55 OF	00 00 0	00 04 02				
10:32	:17.304 1 0x123 S	TD Rx	3 C2 00 00						
<									×
								第1行,	第1列 100% Macintosh (CR) UTF-8

7.2. Pause display function

Click Pause to pause the currently scrolling data window. The device and software can still receive data normally when paused, but the data window will not be refreshed. Click Continue to resume scrolling.

((EB		N	X Device Manage	Send	E Data	li	Gus Ratio	Setti	oo ingHelp		×
Deviec (Connected:ECAN-U01	Time For	mat: System	-	RT Sa	ve	Save (Clear	Pause]	200 XCOM V2.6
Index	Time	Chan	Frame ID	FrameTy	RT	Len	Data				[2022-07-28 10:35:52.439] TX: 550f00000040200002913 [2022-07-28 10:35:52.470] TX: 550f00000040200002913
2014 2013 2012 2011 2010 2009 2008 2007	10:35:52.704 10:35:52.704 10:35:52.658 10:35:52.658 10:35:52.612 10:35:52.612 10:35:52.679	1 1 1 1 1 1 1 1	0x123 0x123 0x123 0x123 0x123 0x123 0x123 0x123 0x123	STD STD STD STD STD STD STD STD	Rx Rx Rx Rx Rx Rx Rx Rx Rx Rx	3 8 3 8 3 8 3 8 3 8	C2 00 00 81 55 0F 00 C2 00 00 81 55 0F 00) 00 00 0) 00 00 0) 00 00 0	4 02 4 02 4 02 4 02		[2022-07-26] 10:35 52 502] 17: 5501000000402000293] [2022-07-26] 10:35 52 555] 17: 5501000004020002931 [2022-07-26] 10:35 52 578] 17: 55040000040200002913 [2022-07-26] 10:35 52 661] 17: 55040000040200002913 [2022-07-26] 10:35 52 762] 17: 55040000040200002913 [2022-07-26] 10:35 52 772] 17: 55040000040200002913 [2022-07-26] 10:35 52 772]
2006 2005 2004 2003	10:35:52.536 10:35:52.536 10:35:52.504 10:35:52.504	1 1 1	0x123 0x123 0x123 0x123 0x123	STD STD STD STD	Rx Rx Rx Rx	3 8 3 8	C2 00 00 81 55 0F 00 C2 00 00 81 55 0F 00	0 00 00 0 0 00 00 0	4 02 4 02		TX: 单杂发送 多杂发送 协议供¥ 55 0f 00 00 00 04 02 00 00
2002 2001 2000	10:35:52.471 10:35:52.471 10:35:52.442	1 1 1	0x123 0x123 0x123	STD STD STD	Rx Rx Rx	3 8 3	C2 00 00 81 55 0F 00 C2 00 00	00 00 0	4 02 ceive Counts	s: 2014 Transmit Counts: 0	 ② 定时发送 周期: 1 ☑ 16进制发送 □ 发送新行 ☑ www.openedv.com ^{COZC-OF}
								Rec	ceive Counts	s: 2014 Transmit Counts: 0 I	Error Counts: 0

7.3. Display Mode

Deviec (Connected:ECAN-U01	Time Fo	rmat: System	-		RT	Save	Save	Clear	Pause	XCOM V2.6
	Time	Chan.	Frame ID	Frame	eTy R	т	Len	Data			[2022-07-28 10: TX: 550£0000000 [2022-07-28 10:
ndex				ALL	- A		-				TX: 550£0000000
324	10:36:21.048	1	0x123	STD	R	x	3	C2 00 0	0		TX: 550£000000
323	10:36:21.048	1	0x123	STD	R	х	8	81 55 0	F 00 00 00	04 02	TX: 550£000000
322	10:36:20.954	1	0x123	STD	R	x	3	C2 00 0	0		[2022-07-28 10 TX: 550£0000000
321	10:36:20.953	1	0x123	STD	R	x	8	81 55 0	F 00 00 00	04 02	[2022-07-28 10: TX: 550£0000000
320	10:36:20.893	1	0x123	STD	R	х	3	C2 00 0	0		[2022-07-28 10 TX: 550£000000
319	10:36:20.893	1	0x123	STD	R	x	8	81 55 0	F 00 00 00	04 02	[2022-07-28 10
318	10:36:20.861	1	0x123	STD	R	x	3	C2 00 0	0		[2022-07-28 10
317	10:36:20.861	1	0x123	STD	R	х	8	81 55 0	F 00 00 00	04 02	[2022-07-28 10
316	10:36:20.815	1	0x123	STD	R	x	3	C2 00 0	0		IX: 550±0000000 单条发送 多条
315	10:36:20.815	1	0x123	STD	R	x	8	81 55 0	F 00 00 00	04 02	55 O£ 00 00 0
314	10:36:20.783	1	0x123	STD	R	x	3	C2 00 0	0		
313	10:36:20.783	1	0x123	STD	R	x	8	81 55 0	F 00 00 00	04 02	
312	10:36:20.740	1	0x123	STD	R	x	3	C2 00 0	0		□ 定时发送
311	10:36:20.740	1	0x123	STD	R	x	8	81 55 0	F 00 00 00	04 02	☑ 16进制发送
310	10:36:20.705	1	0x123	STD	R	x	3	C2 00 0	0		🔅 • www.c

The display mode supports scrolling mode to display the received or sent data. The scrolling display means that the received data scrolls down continuously in the receiving list, and the current window sees the latest data;

7.4. Clear function

The data in the receive / transmit window and the data in the buffer area can be cleared.

((EB		N	X Device Manage	Send	E I Data		H Bus Ratio	Se	00 ttingHelp		- 🗆 ×
Deviec 0	Connected:ECAN-U01	Time For	mat: System	-	RT Sa	ive	Save	Clear	Pause		XCOM V2.6
Index	Time	Chan	. Frame ID	FrameTy	RT	Len	Data				[2022-07-28 10:36 TX: 550f000000040 [2022-07-28 10:36 TX: 550f000000040
3324	10:36:21.048	1	0x123	STD	Rx	3	C2 00 0	00			[2022-07-28 10:36 TX: 550£000000040
3323	10:36:21.048	1	0x123	STD	Rx	8	81 55 (OF 00 00 00	04 02		[2022-07-28 10:36 TX: 550£000000040
3322	10:36:20.954	1	0x123	STD	Rx	3	C2 00 0	00			[2022-07-28 10:36 TX: 550£000000040
3321	10:36:20.953	1	0x123	STD	Rx	8	81 55 (OF 00 00 00	04 02		[2022-07-28 10:36 TX: 550£000000040
3320	10:36:20.893	1	0x123	STD	Rx	3	C2 00 0	00			[2022-07-28 10:36 TX: 550±000000040
3319	10:36:20.893	1	0x123	STD	Rx	8	81 55 (OF 00 00 00	04 02		[2022-07-28 10:36 TX: 550f00000040
3318	10:36:20.861	1	0x123	STD	Rx	3	C2 00 0	00			[2022-07-28 10:36
3317	10:36:20.861	1	0x123	STD	Rx	8	81 55 (DF 00 00 00	04 02		[2022-07-28 10:36
3316	10:36:20.815	1	0x123	STD	Rx	3	C2 00 0	00			单条发送 多条发
3315	10:36:20.815	1	0x123	STD	Rx	8	81 55 (OF 00 00 00	04 02		55 O£ 00 00 00 0
3314	10:36:20.783	1	0x123	STD	Rx	3	C2 00 0	00			
3313	10:36:20.783	1	0x123	STD	Rx	8	81 55 (OF 00 00 00	04 02		
3312	10:36:20.740	1	0x123	STD	Rx	3	C2 00 0	00			□ 定时发送 周
3311	10:36:20.740	1	0x123	STD	Rx	8	81 55 (OF 00 00 00	04 02		☑ 16进制发送 □
3310	10:36:20.705	1	0x123	STD	Rx	3	C2 00 0	00			🔅 • www.ope
								R	eceive Counts: 3	324 Transmit Counts: 0	Error Counts: 0

7.5. Filter settings

Receive filter settings can set filter ID/ time / channel number / length / data, etc. If filter is set, the software will only display the set filter conditions, and frames that are not within the filter range will be filtered out. The demo is as follows:

() EB		N	X Device Manage	Send	E I Data	6	H Bus Ratio	Set	tingHelp		<u>– </u>
Deviec	Connected:ECAN-U01	Time For	mat: System	<u> </u>	RT Sav	/e	Save	Clear	Pause		
Index	Time 10:36:2	Chan	. Frame ID	FrameTy	RT ALL 💌	Len	Data				
50	10:36:21.048	1	0x123	STD	Rx	3	C2 00 00				_
49	10:36:21.048	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
48	10:36:20.954	1	0x123	STD	Rx	3	C2 00 00				
47	10:36:20.953	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
46	10:36:20.893	1	0x123	STD	Rx	3	C2 00 00				-
<mark>4</mark> 5	10:36:20.893	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
44	10:36:20.861	1	0x123	STD	Rx	3	C2 00 00				
43	10:36:20.861	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
42	10:36:20.815	1	0x123	STD	Rx	3	C2 00 00				
41	10:36:20.815	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
40	10:36:20.783	1	0x123	STD	Rx	3	C2 00 00				
39	10:36:20.783	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
38	10:36:20.740	1	0x123	STD	Rx	3	C2 00 00				
37	10:36:20.740	1	0x123	STD	Rx	8	81 55 OF	00 00 00	04 02		
36	10:36:20.705	1	0x123	STD	Rx	3	C2 00 00				<u>-</u>
				_				Re	eceive Counts	: 3324 Transmit Counts: (Error Counts: 0

7.6. Bus diagnostic function

When a bus error occurs during the use of the device, the CAN1/CAN2 data light of the device will display a red constant light display, and the red alarm will not disappear until the bus returns to normal. And the host computer displays the number of error frames, as shown in the figure:

(((EB)	») /TE (CAN	X Device Mana	age Sei	€⊒ nd Data	Bus Rat	io	Setting	9 JHelp		- 🗆 ×
Deviec Co	onnected:ECAN-	U01 Time	Format: System	<u>•</u>	RT Sav	re Save	С	lear	Pause		
Index	CAN Transmi	Ch t	an Frame ID	FramaTu	DT	Lan Data					×
50	Connected	Device:ECAN-U	J01 Conne	cted Device:	ECAN-U01						_
49	Frame										
48	Channel:	CH1 💌	Frame Type:	Stander	Format	: Data	•	Frame ID	7FF		
47	Repeat:	1 🛨	Interval(ms):	1	Data Le	enç 8	•	Data:0x	11 11 11	1 11 11 11 11 1	1
46	D++	Data++							E	Transmit Failed CH1 X	
45									Se	Device Send TimeOut	
44										ОК	T
43											
42											
40											
39											ai
38	10:36:20.740	1	0x123	STD	Rx	3 C2 0	00 00				
37	10:36:20.740	1	0x123	STD	Rx	8 81 5	5 OF 00	00 00 04	02		
36	10:36:20.705	1	0x123	STD	Rx	3 C2 (00 00			_	_
								Recei	ve Counts	s: 3564 Transmit Counts: 0 En	ror Counts: 5

8. Data transmission mode

8.1. Normal sending mode

In the normal mode, the frame data to be sent can be edited very intuitively, and special functions such as cyclic sending can be set. Editing frame information is very intuitive, please note that spaces need to be entered between each byte when inputting data, here the host computer automatically spaces.

CAN Transmit						-		×
Connected Device:ECAN-U01	Connected Device:ECA	AN-U01						
Frame Channel: CH1 ▼ Fram Repeat: 1 ÷ Inter ID++ Data++	ne Type: Stander 💽	Format: Data Lenç	Data 💌 8 💌	Frame ID: 7FF Data:0x 11 11 11 1 Send	1 11 11 11 11			

8.2. Send error frame count function

The software can catch sending errors on the device, and when sending data fails, the count of error frames will be displayed at the bottom right of the software. As shown

((EB	())) YTE (CAN	X Device Manage	Send Data		H Bus Ratio	SettingHelp		<u>–</u> 🗆 ×
Deviec C	Connected:ECAN-	U01 Time I	Format: System	r R	T Save	Save C	Clear Pause		
Index	CAN Transmi	Cha t	n Frama ID	FrameTy DT	Lop	Data			×□
50	Connected	Device:ECAN-U	01 Connected	Device:ECAN-	U01				-
49	Frame								
48 47 46 45 44 43 42 41 40	Channel: Repeat:	CH1 • 1 ÷	Frame Type: S Interval(ms): 1	tander FG	ormat: ata Len <u>c</u>	Data <u> v</u> 8 <u> v</u>	Frame ID: 7FF Data:0x 11 11 1 See	1 11 11 11 11	
38	10:36:20.740	1	0x123	STD Rx	3	C2 00 00			
37	10:36:20.740	1	0x123	STD Rx	8	81 55 OF 00	00 00 04 02		
36	10:36:20.705	1	0x123	STD Rx	3	C2 00 00	Receive Count	s: 3564 Transmit Counts: 0	Frror Counts: 5

9. Important Statement

Ebyte reserves the right of final interpretation and modification of all contents in this manual.

Due to the continuous improvement of the hardware and software of the product, this manual may be changed without prior notice, and the latest version of the manual shall prevail.

Everyone is responsible for protecting the environment: In order to reduce the use of paper, this manual is only printed in Chinese, and the English manual only provides electronic documents. If necessary, please download it from our official website; We only provide product manuals according to a certain proportion of the order quantity, not every digital radio station is equipped with one by one, please understand.

10. Revision History

Version	Revision date	Revision Notes	Maintenance man
1.0	2022.7.28	original version	LM

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