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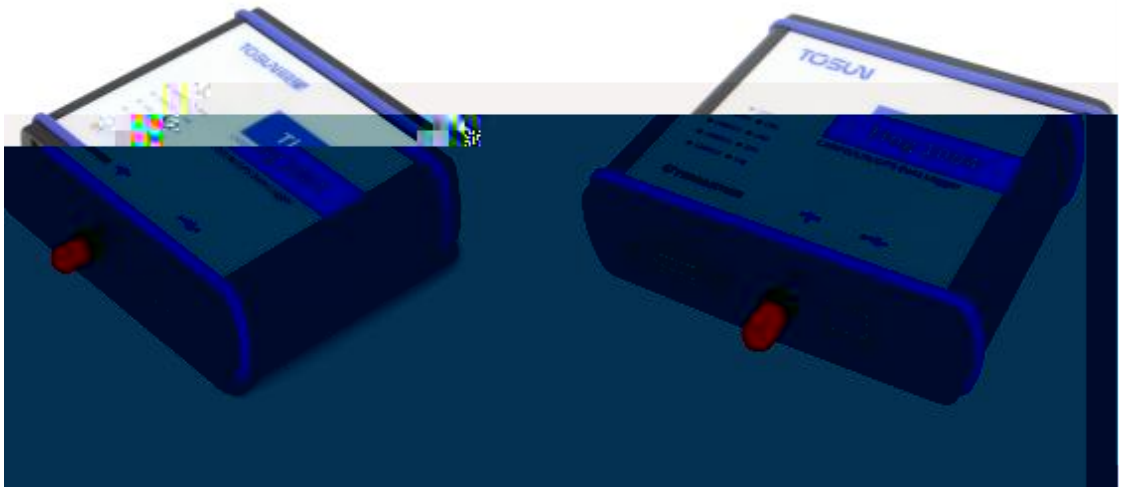
TOSUN
TOSUN

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7. Usage ofTlog Series Device.....29

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Based on Based on en-USe00887ket-USand-USbus/Lang1(rID ecorI5(di008ng-US)>> an4/Lang (G)6(P

3.

The Tlog1002 is a multi-channel CAN (FD) and LIN bus logger launched by TOSUN. It features 2 channels of CAN FD and 2 channels of LIN, with a maximum CAN FD bus rate of 8 Mbps and a LIN bus rate of 0 to 20 kbps. Additionally, it includes multiple digital and analog I/O

interfaces for various signal measurements and system integration. The product connects to a PC via USB 2.0 and comes with 64GB built-in storage. Its driverless design for Windows and Linux systems offers excellent system compatibility.

With the powerful TSMaster software, it supports loading DBC, ARXML database files, making it very convenient to monitor, analyze, and simulate CAN-4(N /i)5(2(f))4(y con)12(veni)6(ent)6(t)5(o

us (microsecond) level hardware message timestamps to meet advanced requirements

USB 2.0 interface, with a driverless design for Windows and Linux systems, offering excellent system compatibility

CAN channel DC 2500V isolation

Automotive-grade design, supporting dbc files, a2l files, blf files, and asc files

Supports blf format data recording and offline/online playback

Supports UDS diagnostics and CCP/XCP calibration

Supports UDS based Bootloader flashing

Supports secondary development interfaces for Windows and Linux systems

Capable of loading all paid licenses for TSMaster.

Can be used independently without a PC

Supports GPS function;

Built-in 64GB eMMC storage

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	( ) ( )
	- -
	10% 90% (non-condensing)

-

Parameter		Test Condition	Minimum Value	Typical Value	Maximum Value	Unit
	USB power supply	Analyzer mode CAN/LIN transmission				V
	External DC power supply	Analyzer mode CAN/LIN transmission				V
	USB power supply	Analyzer mode CAN/LIN transmission	--		--	A
	External DC power supply	Analyzer mode CAN/LIN transmission	--		--	A
	USB/DC total	Analyzer mode CAN/LIN transmission	--		--	W
	External DC power supply	Logger mode CAN/LIN Logging	9		32	V
	External DC power supply	Logger mode CAN/LIN Logging	--		--	A
	External	Logger mode	--		--	W

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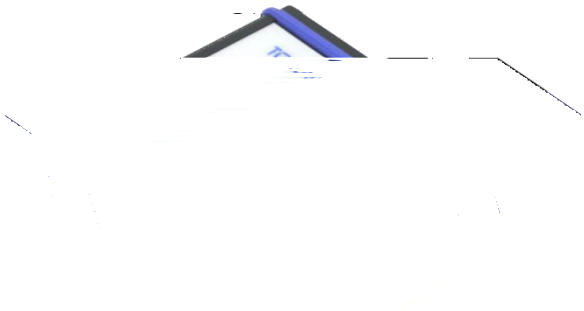

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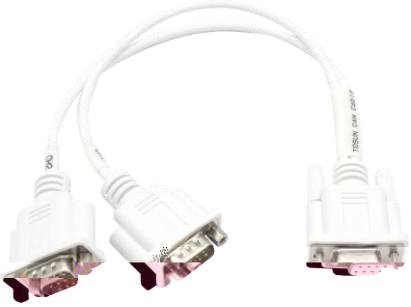

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GPS
USB
I/O
CANFD 1/2
LIN 1/2

➢

➢

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LIN1
LIN2
LINK
TSMASTER

4.

The Tlog1004 is a multi-channel CAN (FD) and LIN bus logger launched by TOSUN. It features 4 channels of CAN FD and 2 channels of LIN, with a maximum CAN FD bus rate of 8 Mbps and a LIN bus rate of 0 to 20 kbps. Additionally, it includes multiple digital and analog I/O interfaces for various signal measurements and system integration. The product connects to a PC via USB 2.0 and comes with 64GB built-in storage. Its driverless design for Windows and Linux systems offers excellent system compatibility.

With the powerful TSMaster software, it supports loading DBC, ARXML database files, making it very convenient to monitor, analyze, and simulate CAN bus data, and it also supports functions such as UDS diagnostics, ECU flashing, CCP/XCP calibration, etc.

us (microsecond) level hardware message timestamps to meet advanced requirements

USB 2.0interface, with a driverless design for Windows and Linux systems, offering excellent system compatibility

CAN channel DC 2500V isolation

Automotive-grade design, supporting dbc files, a2l files, blf files, and asc files

Supports blf format data recording and offline/online playback

Supports UDS diagnostics and CCP/XCP calibration

Supports UDS based Bootloader flashing

Supports secondary development interfaces for Windows and Linux systems

Capable of loading all paid licenses for TSMaster.

Canbe used independently without a PC;

Supports GPS function;

Built-in 64GB eMMC storage

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	-
	( ) ( )
	- -
	10% 90% (non-condensing)

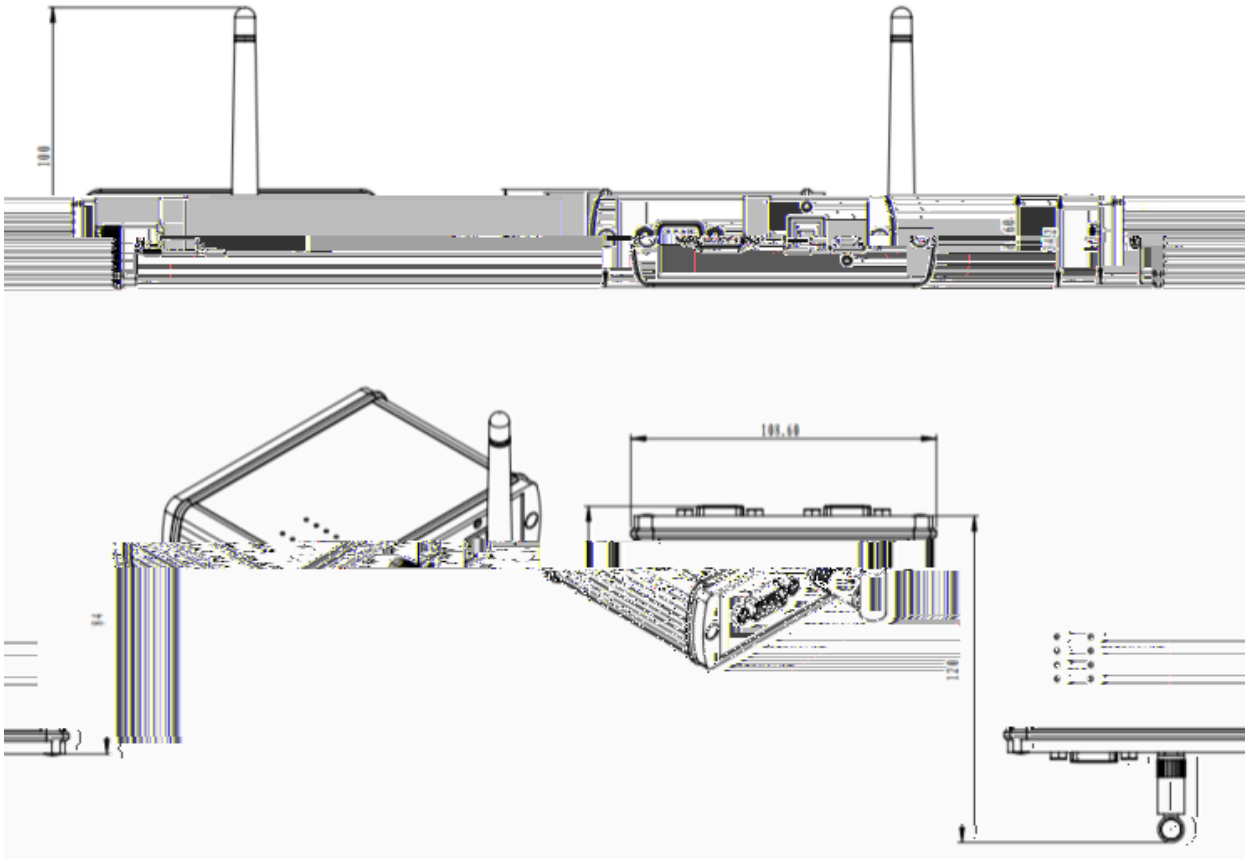
-

Parameter		Test Condition	Minimum Value	Typical Value	Maximum Value	Unit
	USB power supply	Analyzer mode CAN/LIN transmission				V

-

	External DC power supply	Analyzer mode CAN/LIN transmission				V
	USB power supply	Analyzer mode CAN/LIN transmission	--		--	A
	External DC power supply	Analyzer mode CAN/LIN transmission	--		--	A
	USB/DC total	Analyzer mode CAN/LIN transmission	--			

-



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TOSUN
Tlog 1004
CANFD/LIN/GPS

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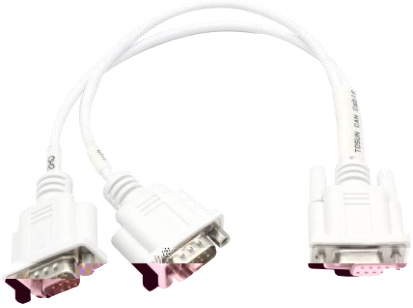

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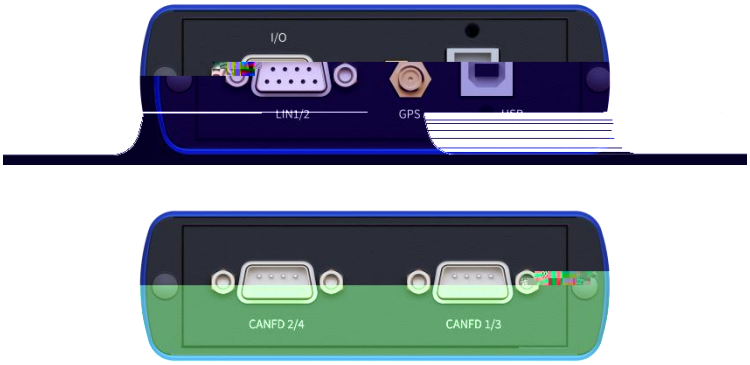
I/O
LIN1/2
GPS
USB
CANFD 2/4
CANFD 1/3

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5.

6.

TSMASTER

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TSMaster

7.

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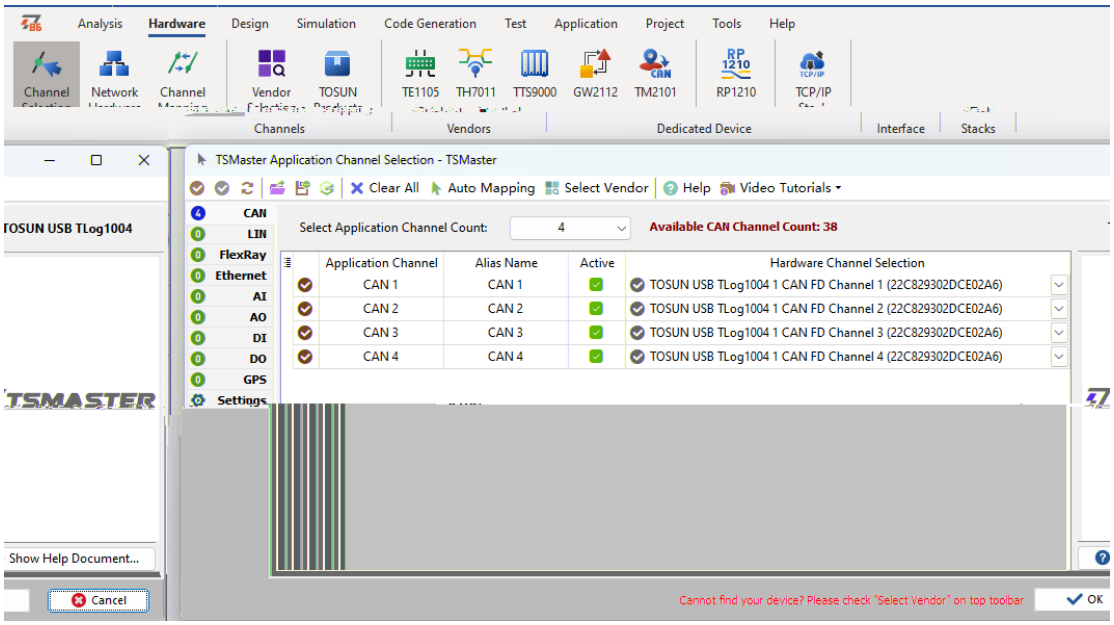
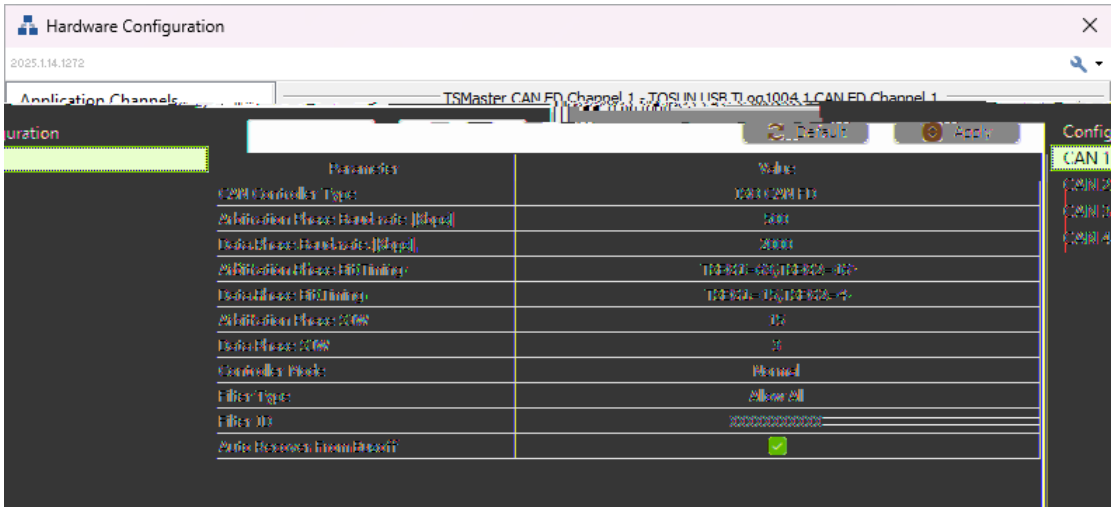
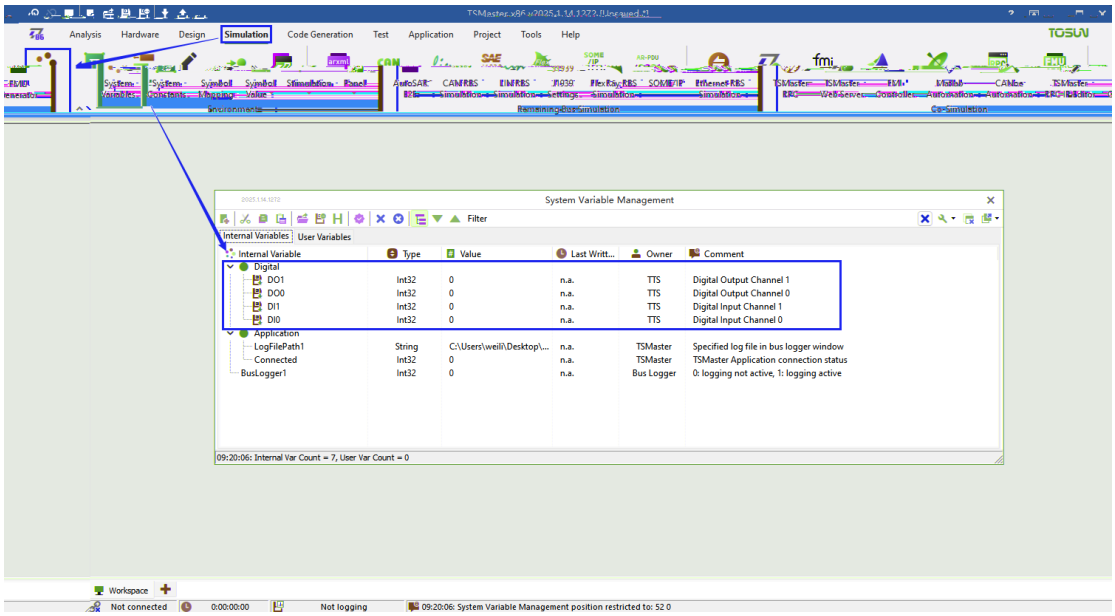

Analysis
Hardware
Design
Simulation
Code Generation
Test
Application
Project
Tools
Help
Channel
Network
Channel
Vendor
TOSUN
TE1105
TH7011
TTS9000
GW2112
TM2101
RP1210
TCP/IP
Channels
Vendors
Dedicated Device
Interface
Stacks
TSMaster Application Channel Selection - TSMaster
Clear All
Auto Mapping
Select Vendor
Help
Video Tutorials
TOSUN USB TLog1004
CAN
LIN
FlexRay
Ethernet
AI
AO
DI
DO
GPS
Settings
Select Application Channel Count:
4
Available CAN Channel Count: 38
Application Channel
Alias Name
Active
Hardware Channel Selection
CAN 1
CAN 1
TOSUN USB TLog1004 1 CAN FD Channel 1 (22C829302DCE02A6)
CAN 2
CAN 2
TOSUN USB TLog1004 1 CAN FD Channel 2 (22C829302DCE02A6)
CAN 3
CAN 3
TOSUN USB TLog1004 1 CAN FD Channel 3 (22C829302DCE02A6)
CAN 4
CAN 4
TOSUN USB TLog1004 1 CAN FD Channel 4 (22C829302DCE02A6)
TSMASTER
Show Help Document...
Cancel
Cannot find your device? Please check "Select Vendor" on top toolbar
OK

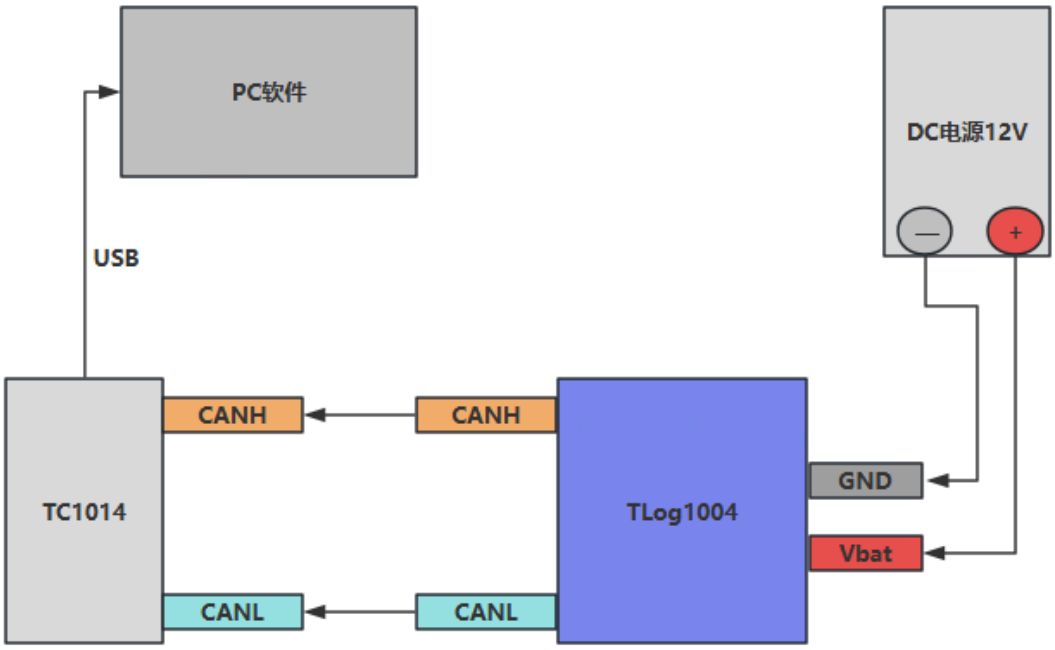
-


Hardware Configuration
2025.1.14.1272
Application Channels
TSMaster CAN FD Channel 1 - TOSUN USB TLog1004 1 CAN FD Channel 1
uration
Default
Apply
Parameter
Value
CAN1

-


Analysis
Hardware
Design
Simulation
Code Generation
Test
Application
Project
Tools
Help
System Variable Management
Filter
Internal Variables
User Variables
Internal Variable
Type
Value
Last Writt...
Owner
Comment
Digital
DO1 Int32 0 n.a. TTS Digital Output Channel 1
DO0 Int32 0 n.a. TTS Digital Output Channel 0
DI1 Int32 0 n.a. TTS Digital Input Channel 1
DI0 Int32 0 n.a. TTS Digital Input Channel 0
Application
LogFilePath1 String C:\Users\weili\Desktop\... n.a. TSMaster Specified log file in bus logger window
Connected Int32 0 n.a. TSMaster TSMaster Application connection status
BusLogger1 Int32 0 n.a. Bus Logger 0: logging not active, 1: logging active
09:20:06: Internal Var Count = 7, User Var Count = 0
Workspace
Not connected
0:00:00:00
Not logging
09:20:06: System Variable Management position restricted to: 52 0

-


PC软件
USB
DC电源12V
—
+
TC1014
CANH
CANH
TLog1004
GND
Vbat
CANL
CANL

6 O K ` /

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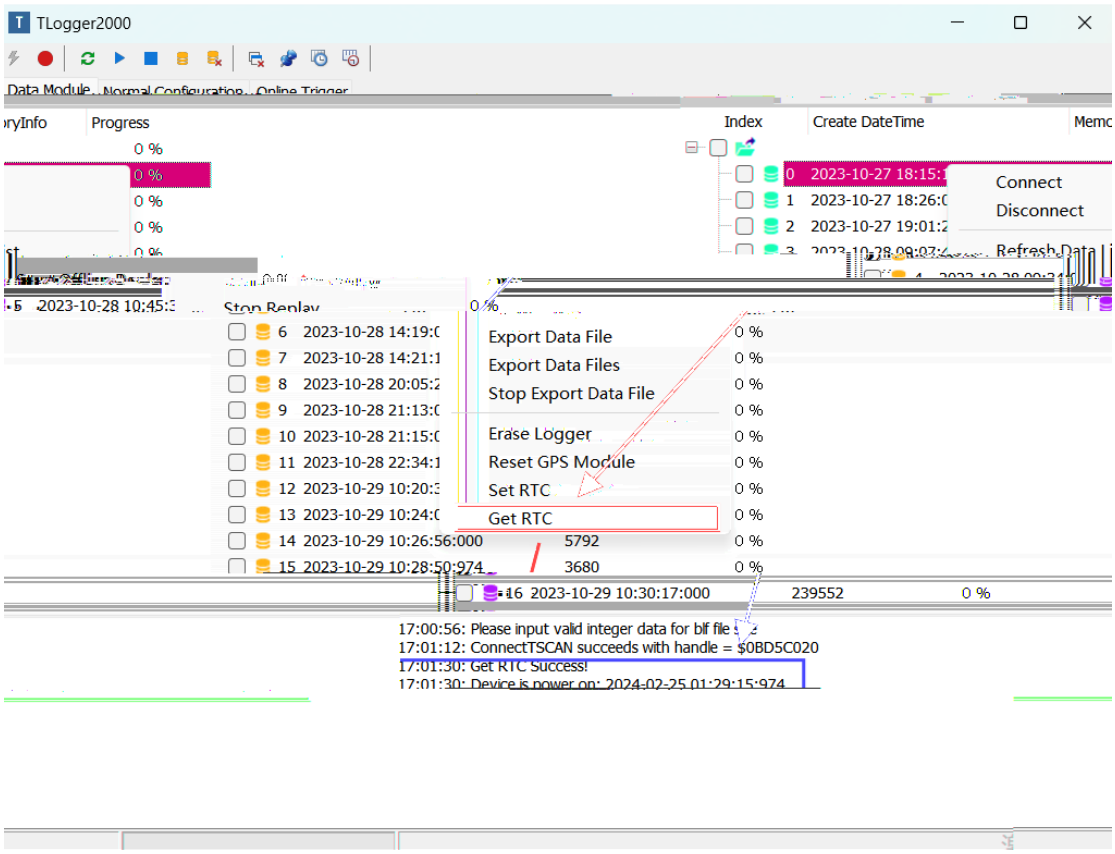
TLogger2000
Data Module
Normal Configuration
Online Trigger
Progress
Index
Create DateTime
Connect
Disconnect
Refresh Data
Export Data File
Export Data Files
Stop Export Data File
Erase Logger
Reset GPS Module
Set RTC
Get RTC
16 2023-10-29 10:30:17:000
239552
17:00:56: Please input valid integer data for blf file
17:01:12: ConnectTSCAN succeeds with handle = $0BD5C020
17:01:30: Get RTC Success!

-

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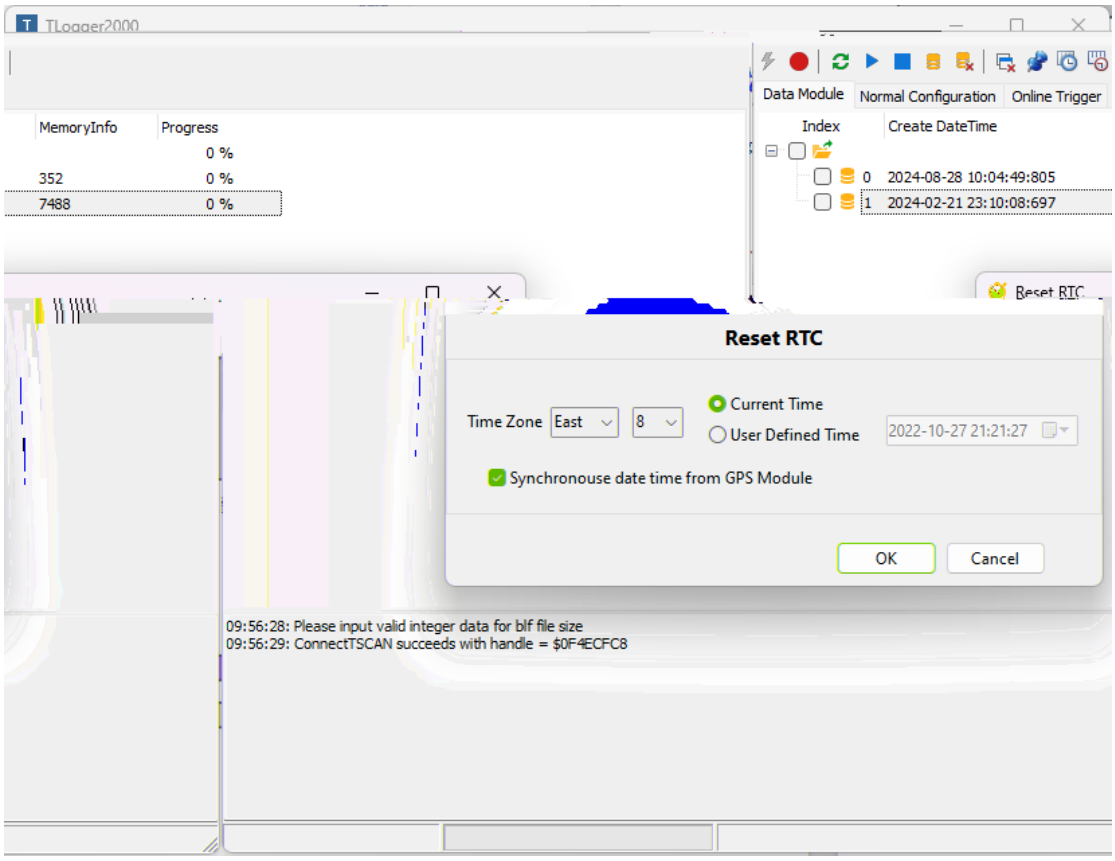
TLogger2000
MemoryInfo
Progress
0 %
352
0 %
7488
0 %
Data Module
Normal Configuration
Online Trigger
Index
Create DateTime
0
2024-08-28 10:04:49:805
1
2024-02-21 23:10:08:697
Reset RTC
Reset RTC
Time Zone
East
8
Current Time
User Defined Time
2022-10-27 21:21:27
Synchronouse date time from GPS Module
OK
Cancel
09:56:28: Please input valid integer data for blf file size
09:56:29: ConnectTSCAN succeeds with handle = $0F4ECFC8

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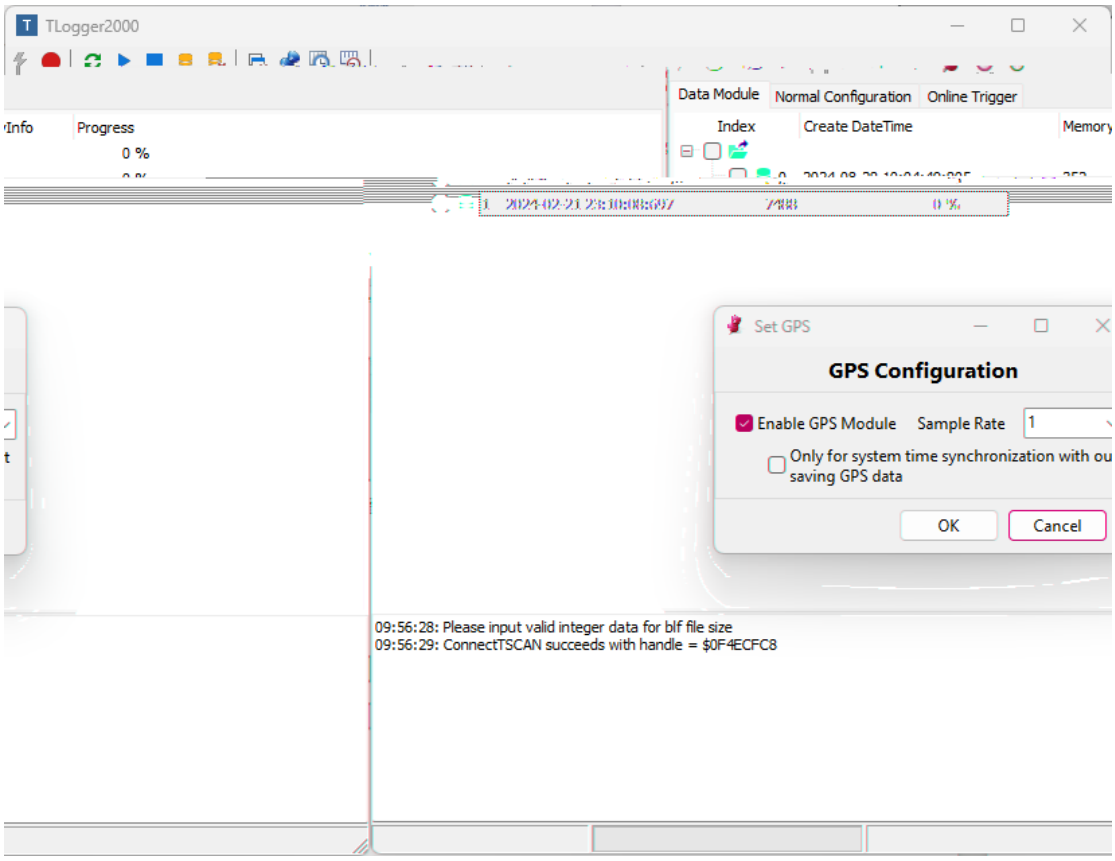
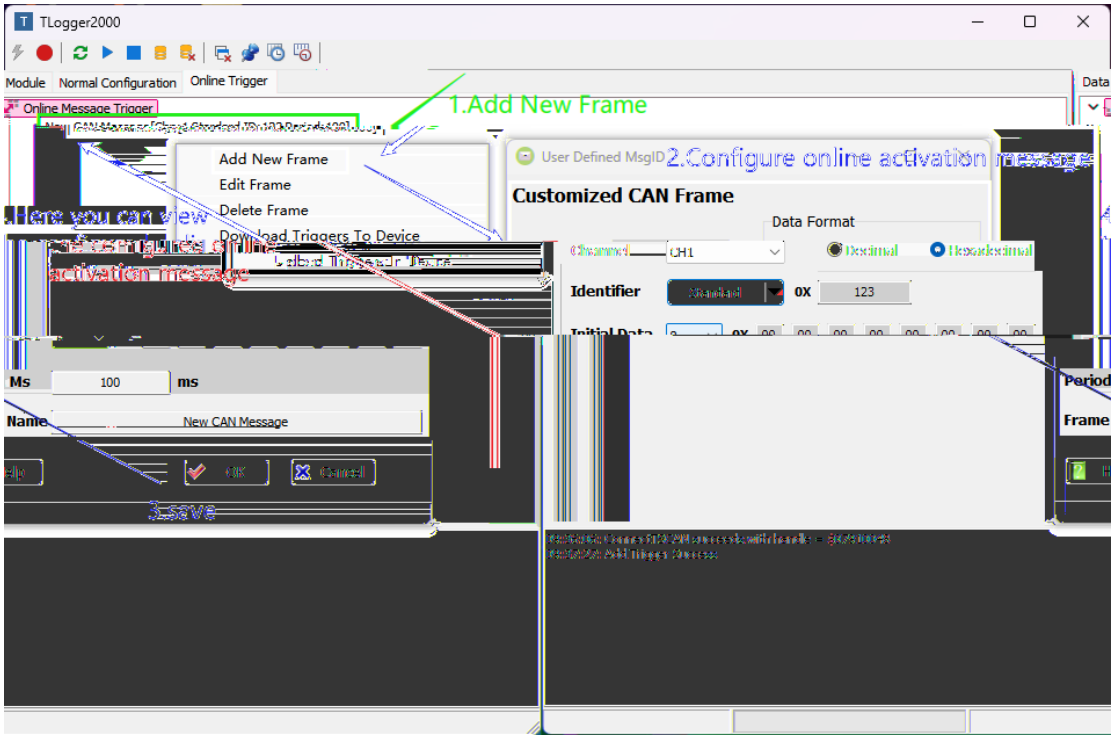
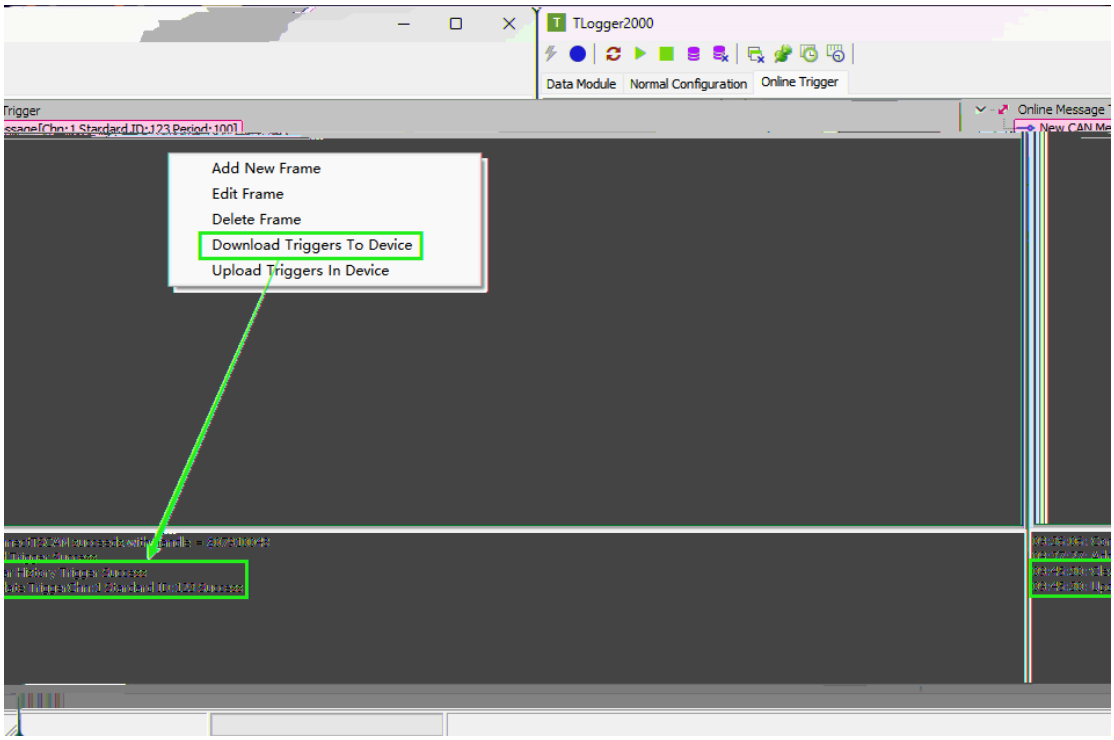

TLogger2000
Data Module
Normal Configuration
Online Trigger
Info
Progress
Index
Create DateTime
Memory
0 %
Set GPS
GPS Configuration
Enable GPS Module
Sample Rate
1
Only for system time synchronization with ou
saving GPS data
OK
Cancel
09:56:28: Please input valid integer data for blf file size
09:56:29: ConnectTSCAN succeeds with handle = $0F4ECFC8


TLogger2000
Module
Normal Configuration
Online Trigger
Online Message Trigger
1.Add New Frame
Add New Frame
Edit Frame
Delete Frame
Download Triggers To Device
User Defined MsgID
2.Configure online activation message
Customized CAN Frame
Data Format
CH1
Decimal
Hexadecimal
Identifier
0X
123
Ms
100
ms
Name
New CAN Message
OK
Cancel
3.save
Period
Frame


TLogger2000
Data Module
Normal Configuration
Online Trigger
Add New Frame
Edit Frame
Delete Frame
Download Triggers To Device
Upload Triggers In Device

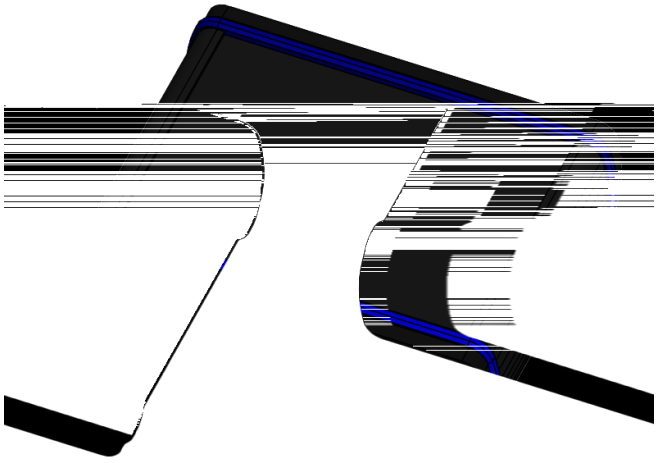
8.

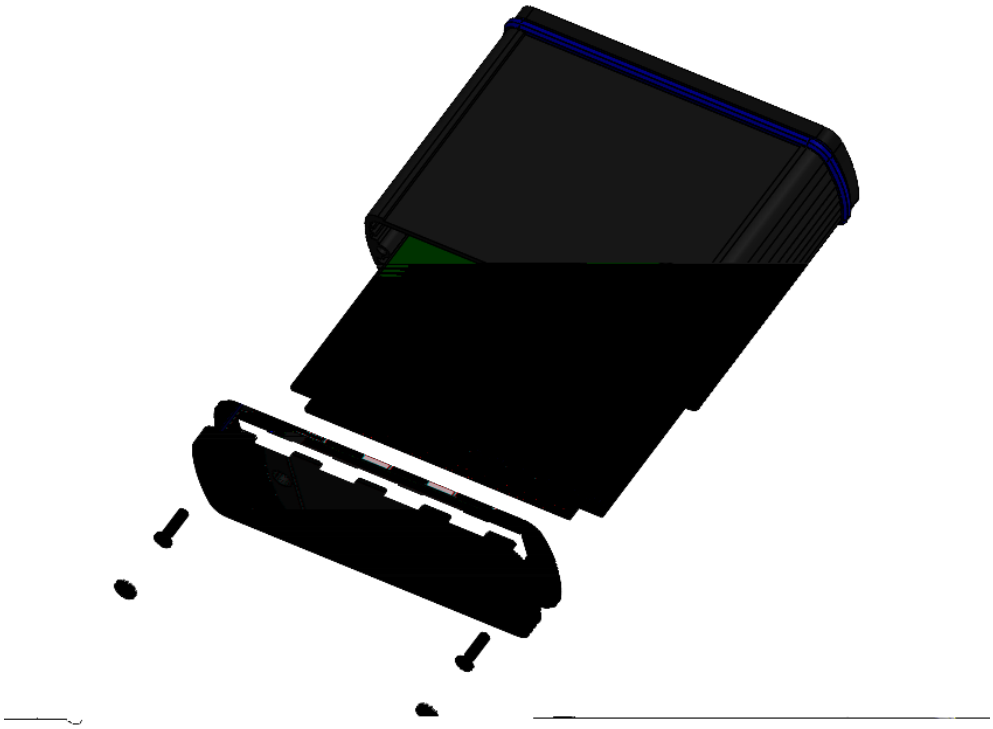
The main electrical components of TOSUN series devices are semiconductor components. Although the equipment has a long service life, they may also accelerate aging and significantly reduce their service life under an incorrect environment. Therefore, during the use of the equipment, periodic inspection should be carried out to ensure that the use environment maintains the required conditions.

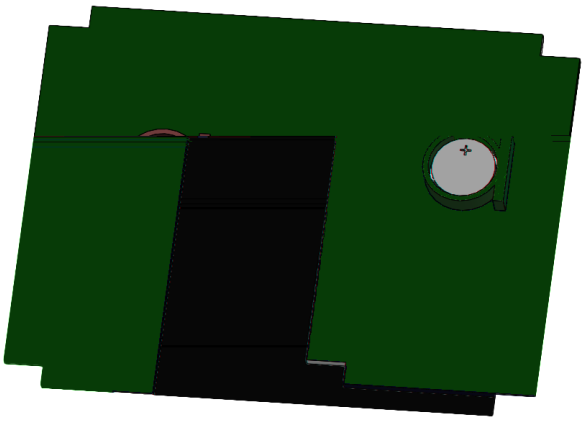
It is recommended to conduct inspections at least once every 6 months to 1 year. Under improper environmental, more frequent inspections should be conducted. As shown in the table below, if you encounter problems during maintenance, please read the following content to find the possible causes of the problem. If the problem still cannot be solved, please contact Shanghai TOSUN Technology Ltd.

Item		Standard	Action
Power Supply	Inspect for voltage fluctuations at the power supply end	USB port +5V DC Power supply port +12V DC	Use a USB power meter/voltage meter to check the power input end. Take necessary actions to keep the voltage fluctuation within the acceptable range.
Surrounding Environment	Check the ambient temperature of the surrounding environment. (Including the internal temperature of enclosed environments)	-	Use a thermometer to check the temperature and ensure that the ambient temperature within in the acceptable range.
	Check the ambient humidity. (Including the internal humidity of enclosed environments)	The relative humidity must be within the range of 10% to 90%	Use a hygrometer to check the humidity and ensure that the ambient humidity within the acceptable range.
	Check for the accumulation of dust, powder, salt, and metal shavings	No accumulation	Clean and protect the equipment

	Check for any contact with water, oil, or chemical sprays on the equipment	No contact	Clean and protect the equipment if necessary
	Check for the presence corrosive or flammable gases in the equipment area	No presence	Inspect by the smell, or using a sensor
	Check for levels of vibration and shock	Vibration and shock are within the acceptable range	Install padding or other shock-absorbing devices if necessary
	Check for noise sources near the equipment	No significant noise source	Isolate the equipment from noise sources or protect the equipment
Wiring Installation	Check the crimped connectors in the external wiring	Ensure enough space between the connectors	Visually inspect and adjust if necessary
	Check for damage in the external wiring	No damage	Visually inspect and replace the wiring if necessary

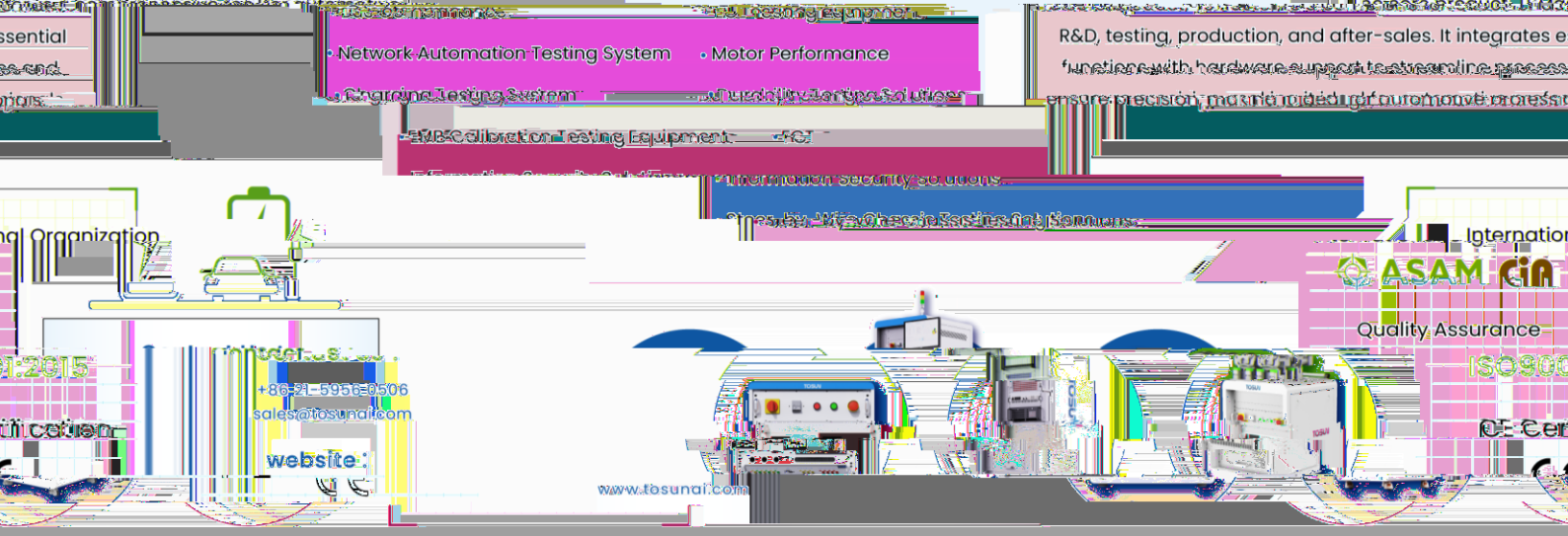






Lithium
3V
sc

Software

Hardware

Solutions