TOSい同星

User mode 1				
User mode 2 Pe	ort mirroring ([])			TE1105
Mode				
Master	Master	Master	Master	Master
Master 1000	 Master 1000 			
Master 1000 T1 Link	 Master 1000 T1 Link 			
Master 1000 T1_Link T(X)_Link	 Master 1000 T1_Link T(X)_Link 			

Hardware IFU-TE1105

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In line with the principle of providing better service to users, Shanghai TOSUN Technology LTD (hereinafter referred to as "TOSUN Technology") will present detailed and accurate product information to users as much as possible in this manual. However, since the content of this manual has a certain timeliness, the TOSUN Technology can not fully guarantee the timeliness and applicability of the document at any time period.

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catalogue

1. Product profile

1.1 Product Overview

TE1105 is a 5-way Ethernet switch launched by Star Intelligence, which can realize the selection of any port in the standard Ethernet 100Base-Tx / 1000Base-T or the vehicle Ethernet 100 / 1000Base-T1 with the terminal network and monitor monitoring.

Support IEEE 802.1q (VLAN) mode, support MAC filtering, IEEE802.1Qav AVB flow Plastic surgery, IEEE802.1Qat time-sharing scheduling.

Select the normal mode or the user customization mode by pressing the button. Primary or slave mode is switched and Ethernet data will be converted lossless between vehicle Ethernet and 100 / 1000Base-TX Ethernet communication.TE1105 Will be the ideal low-cost converter tool between the 100 / 1000Base-T1 Automotive Ethernet and PC systems.

Suitable for R & D personnel, ECU production line, test engineers, after-sales engineers, etc.

1.2 Typical applications

- ✓ Car Ethernet message is forwarded
- ✓ Vehicle Ethernet data monitoring and analysis
- ✓ Vehicle-mounted Ethernet communication test
- ✓ Various test stands

1.3 Functions and parameters

1.3.1 Main functions

- ✓ 5-way 100Base-Tx / 1000Base-T and 100 / 1000Base-T1, which can be switched at any time through the software
- ✓ Vehicle Ethernet interface form: TE MATEnet and Rosenberg H-MTD
- ✓ Support the Ethernet message forwarding and listening mode
- Support 2 custom configurations, can define VLAN, TSN time-sharing scheduling, AVB flow shaping, port filtering gauge
 Wait (need to communicate with the same customized)
- ✓ Mirror Function: Two channels of the vehicle Ethernet can realize the message mirror function
- ✓ Transmission function: the vehicle Ethernet transmits the message to the PC directly through

the RJ 45

- ✓ The LED displays the vehicle / standard Ethernet working status
- ✓ Master / slave mode, rate, can be configured by dialing and displayed by LED status
- ✓ Custom-made, high-quality cable

1.3.2 Technical parameters

channel	5-way 100Base-Tx / 1000Base-T and 100 / 1000Base-T1
Ethernet interface	RJ 45 + TE MATEnet or Rosenberg H-MTD
supply electricity	DC 9-32V
working temperature	-40°C~80°C
sheathing material	aluminium product
size	300×120×30 mm

1.4 Shipping list

- ✓ TE1105 Host machine
- ✓ USB line
- ✓ DC 12V Power supply adapter
- ✓ TE MATEnet Or Rosenberg H-MTD cable (not standard, be ordered separately)



2. Hardware appearance and interface

2.1 Hardware appearance



2.2 Hardware interface and indicator light

2.2.1 Power supply interface



Support 9-32V power supply, support two power supply modes, the default factory provides 12V power supply;

Mode 1: Phoenix terminal power supply, 9-32V power supply, the left is the positive, the right is the negative.

Method 2:12V supporting power supply supply.

Note: USB ports are only used for communication and do not provide power.

2.2.2 LED indicator lamp

TOSUL	-h		r Cr	e e e e e e e e e e e e e e e e e e e
User mode 1 N User mode 2 P	ort mirroring (1 1 1 1 1 1)			TE1105
Mode				
Master	 Master 	Master	 Master 	Master
• 1000	• 1000	• 1000	• 1000	• 1000
• T1_Link	 T1_Link 	 T1_Link 	 T1_Link 	 T1_Link
 T(X)_Link 	 T(X)_Link 	 T(X)_Link 	T(X)_Link.	 T(X)_Link
01	02	03	04	05

pilot lamp	definition	explain		
⊖ • € •	power light	Electricity is often bright		
•	Usb pilot lamp	The connecting usb line is always		
		bright		
User mode1	Mode indicator light-User	Mode selection is often bright		
	Customizing mode 1			
User model2	Mode indicator light-User	Mode selection is often bright		
	customization mode 2			
Nomal	Regular switch mode	Mode selection is often bright		
Port mirroing	Mirror message monitoring mode	Mode selection is often bright		
Master	Primary and slave mode switching	Host mode is always on / slave		
	indicator light	mode is off		
1000	The 100M / 1000M switch indicator	1000M mode always on / 100M		
	light	mode off		
T1_Link	The T1 port link Link indicator light	The T1 port selection is often bright		
T(X)_Link	T (X) port link Link indicator light	The T (X) port selection is often		
		bright		

Instructions for indicator light:

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2.3 Equipment mode



The device switches the working mode through the mode key and supports four working modes: Nomal, Port mirroring, User mode1 and User mode2;

> The device comes with two default modes:

Nomal: General switch mode

Port mirroring: Mirror message monitoring mode.

Conventional switch mode:ports 2 and 3 are grouped together, ports 4 and 5 are grouped together, and port 1 can monitor and capture packets from other ports.

Mirror message monitoring mode: Port 1 and Port 2 are grouped together, Port 3 and Port 4 are grouped together, and Port 5 can monitor and capture packets from other ports.

> Two user customization modes are supported:

User mode1: User customization is required, defining VLAN, TSN time-sharing scheduling, AVB flow shaping, port filtering rules, etc

User mode2: User customization is required, defining VLAN, TSN time-sharing scheduling, AVB flow shaping, port filtering rules, etc

2.4 Port mode settings

2.4.1 Introduction of the port mode

All 5-way ports support T1 and T (X) Ethernet port switching, 1000M and 100M rate switching, master-slave mode switching; all 5-way ports support self-negotiation function;



2.4.2 Port mode switching

Code switch: used to switch the port mode



Dial-up code 1: T (X) and T1 port type switch;

Dial code 2: port self-negotiation and manual configuration mode switch;

Dial code 3:1000M and 100M rate switch;

Dial code 4: master and slave mode switching;

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3.TE1105 hardware use

3.1 Example of the use of the device

Objective: The device acts as a regular switch to make two PCs communicate through ports 1 and 2;The steps are as follows:

3.1.1 Power-up

Make sure that the power supply indicator light is always on;



3.1.2 Select the working mode of the equipment

Make the device work in the Nomal switch mode, and the Mode button can switch the device mode to ensure that the device mode indicator light is always on;



(Note: Device mode indicator is not on please restart the device!!!)

3.1.3 Select the port working mode

Set port 1: Use regular Ethernet port with self-negotiation configuration (self-negotiation mode will ignore rate and master settings); as shown in the figure:



Set port 2: using the conventional Ethernet port, using manual configuration, setting rate to 1000M, host mode; as shown in the figure:



3.1.4 Network cable port configuration

Insert one network cable RJ 45 into the port of the PC 1 and the other network cable RJ 45 into the port of PC 2 as shown in the figure below; ensure that two computers are under the same LAN, set static IP of PC 1:192.168.0.30, and static IP of PC 2:192.168.0.11;



Connection Block Diagram:



PC machine 1:

) 自动获得 IP 地址(<u>O</u>)	
●使用下面的 IP 地址(S):	
IP 地址():	192.168.0.30
子网掩码(U):	255 . 255 . 255 . 0
默认网关(D):	192.168.0.1
)日初获得 DNS 服务器地址(B)).
AT THE DALC BEAT SELAN.	

PC machine 2:

2	
1果网络支持此功能,则可以获用 系统管理员处获得适当的 IP 设	奴自动指派的 IP 设置。否则,你需要从网 置。
〇 自动获得 IP 地址(<u>O</u>)	
●使用下面的 IP 地址(S):	
IP 地址(I):	192.168.0.11
子网掩码(<u>U</u>):	255.255.255.0
默认网关(D):	192.168.0.1
○ 自动获得 DNS 服务器地址(B)
○使用下面的 DNS 服务器地均	止(<u>E</u>):
首选 DNS 服务器(P):	
备用 DNS 服务器(A):	

3.1.5 Send the data

Cmd enters the command window and two computers call the following two commands to send ICMP request:

1-PC input: ping 192.168.0.11-t

C:\U	sers\seven>pin	ng 192.1	68.0.11	-t	
正在自主	Ping 192.168. 192.168.0.11	0.11 具 的回复: 的回复:	有 32 字 [:] 字节=32 字节=22	节的数据: 时间=1ms 时间=2ma	TTL=64
小来来立	192. 168. 0. 11 192. 168. 0. 11 192. 168. 0. 11	的回复:的回复:的回复:的回复:	字节=32 字节=32 字节=32	时间=2ms 时间=2ms 时间=2ms	TTL=64 TTL=64
不来来	192. 168. 0. 11 192. 168. 0. 11 192. 168. 0. 11	的回复:	字节=32 字节=32	时间=2ms 时间=2ms 时间=2ms	TTL=64 TTL=64 TTL=64
米平自自来	192. 168. 0. 11 192. 168. 0. 11 192. 168. 0. 11	的回复: 的回复: 的回复:	子节=32 字节=32 字节=32	时(8)=2ms 时(8)=2ms 时(8)=2ms	TTL=64 TTL=64 TTL=64
来自来自	192. 168. 0. 11 192. 168. 0. 11	的回复: 的回复:	字节=32 字节=32	87(8)=2ms 87(8)=2ms	TTL=64 TTL=64

2. PC input: ping 192.168.0.30-t

Two PCs can communicate with each other, as shown in the figure:

C:\Users\ZHANGLIANG>ping 192.168.0.30 -t						
正在	Ping 192.168	.0.30 具 [;]	有 32 字	节的数据:		
来自	192.168.0.30	的回复:	字节=32	时间=2ms	TTL=128	
来自	192.168.0.30	的回复:	字节 =32	时间=2ms	TTL=128	
来自	192.168.0.30	的回复:	字节=32	时间=2ms	TTL=128	
来自	192.168.0.30	的回复:	字节 =32	时间=2ms	TTL=128	
来自	192.168.0.30	的回复:	字节=32	时间=2ms	TTL=128	
来自	192.168.0.30	的回复:	字节=32	时间=2ms	TTL=128	

3.1.6 Iperf3 Test Bandwidth:

Ster) 1:	Open	the	instal	llation	path	of the	iperf3
2 COP		open		mou	10001011	pauli	01 0110	100115

📁 iperf-3.1.3-win64			- 🗆 X
④ 新建 ~ 岁		↑↓ 排序 -> □ 音看	• • ••
\leftrightarrow \rightarrow \sim \uparrow	> 资料 → 测速软件 → iperf-3.1.3-win64	~ C	。 を iperf-3.1.3-wi
> text text text text text text text te	名称	修改日期	类型
📃 桌面 🔹 🖈	🗟 cygwin1.dll	2016/4/21 22:14	应用程序扩展
	iperf3.exe	2016/6/9 10:30	应用程序
	📑 readme.txt	2023/2/13 18:49	文本文档
2023-04			

Step 2: input: cmd, enter the windows terminal command window; both PC 1 and PC 2 need to perform this operation;

iperf-3.1.3-win64			- 🗆 X
 新建 - 		□ ↓ 排序 - 三 查看 ·	
\leftrightarrow \rightarrow \checkmark	cmd	~ >	
◇ 🚖 快速访问	搜索 "cmd"	日期	类型
桌面 📌	cygwin1.dll	2016/4/21 22:14	应用程序扩展
	🏓 iperf-3.1.3-win64	2023/4/7 13:34	快捷方式
	iperf3.exe	2016/6/9 10:30	应用程序
2023-04	readme.txt	2023/2/13 18:49	文本文档

Step 3:1000M test

PC 1 as a client, input the following instructions: iperf3.exe-s

Micros (c) Mi	oft Windows (crosoft Corpo	[版本 10.0.19045.3693] mation。保留所有权利。
C:\Use	rs\seven\Desk	xtop∖iperf-3.1.3-win64>iperf3.exe -s
Server	listening or	1 5201

For PC 2 as the client, enter the following instructions: iperf3.exe-c 192.168.0.30-u-b 930M-fM-i 3-w 128M-t 6000

C	:\Us	ers\ZHANGLIANG	Desk	top\iperf-3.1	1.3-win64>iperf3.	exe -c 192.168.0.30	-u -b 9301	1-f M -	i 3 -w 128M	-t	6000
U	onne	cting to host	192.1	68.0.30, port	5201						
I	4]	local 192.168	.0.11	port 57865 c	connected to 192.	168.0.30 port 5201					
I	ID]	Interval		Transfer	Bandwidth	Total Datagrams					
[4]	0.00-3.00	sec	327 MBytes	109 MBytes/sec	41838					
[4]	3.00-6.00	sec	332 MBytes	111 MBytes/sec	42488					
[4]	6.00-9.01	sec	328 MBytes	109 MBytes/sec	42017					
[4]	9.01-12.00	sec	340 MBytes	114 MBytes/sec	43567					
[4]	12.00-15.00	sec	334 MBytes	111 MBytes/sec	42743					
[4]	15.00-18.00	sec	327 MBytes	109 MBytes/sec	41837					
[4]	18.00-21.01	sec	337 MBytes	112 MBytes/sec	43080					
[4]	21.01-24.00	sec	334 MBytes	112 MBytes/sec	42811					
]	4]	24.00-27.00	sec	330 MBytes	110 MBytes/sec	42245					
]	4]	27.00-30.01	sec	333 MBytes	110 MBytes/sec	42602					
[4]	30.01-33.01	sec	328 MBytes	109 MBytes/sec	42032					

At this time, the client of the PC 1 will receive the data, as shown:

5]	84.00-85.00	sec	122 MBytes	1.02 Gbits/sec	0.068 ms	0/15580	(0%)
5]	85.00-86.00	sec	108 MBytes	902 Mbits/sec	0.069 ms	0/13761	(0%)
5]	86.00-87.00	sec	114 MBytes	954 Mbits/sec	0.074 ms	0/14562	(0%)
5]	87.00-88.00	sec	111 MBytes	933 Mbits/sec	0.064 ms	0/14233	(0%)
5]	88.00-89.00	sec	111 MBytes	930 Mbits/sec	0.067 ms	0/14198	(0%)
5]	89.00-90.00	sec	109 MBytes	911 Mbits/sec	0.063 ms	0/13902	(0%)
5]	90.00-91.00	sec	112 MBytes	938 Mbits/sec	0.065 ms	0/14310	(0%)
5]	91.00-92.00	sec	112 MBytes	939 Mbits/sec	0.052 ms	0/14321	(0%)
5]	92.00-93.00	sec	111 MBytes	931 Mbits/sec	0.065 ms	0/14203	(0%)
5]	93.00-94.00	sec	109 MBytes	915 Mbits/sec	0.069 ms	0/13963	(0%)
5]	94.00-95.00	sec	111 MBytes	934 Mbits/sec	0.067 ms	0/14249	(0%)
5]	95.00-96.00	sec	112 MBytes	941 Mbits/sec	0.123 ms	0/14350	(0%)
5]	96,00-97.00	sec	111 MBytes	928 Mbits/sec	0.059 ms	0/14166	(0%)
5]	97.00-98.00	sec	110 MBytes	925 Mbits/sec	0.053 ms	0/14115	(0%)
5]	98.00-99.00	sec	110 MBytes	926 Mbits/sec	0.073 ms	0/14138	(0%)
5]	99.00-100.00	sec	111 MBytes	932 Mbits/sec	0.075 ms	0/14221	(0%)
5]	100.00-101.00	sec	111 MBytes	931 Mbits/sec	0.057 ms	0/14199	(0%)
5]	101.00-102.00	sec	109 MBytes	917 Mbits/sec	0.052 ms	0/14000	(0%)
5]	102.00-103.00	sec	114 MBytes	958 Mbits/sec	0.064 ms	0/14623	(0%)
5]	103.00-104.00	sec	109 MBytes	916 Mbits/sec	0.061 ms	0/13976	(0%)

Conclusion: The running results show no disorder, no packet loss, and a bandwidth of 1000M is above 900M. The test is passed.

Step 4:100M test

Both PC 1 and PC 2 are fixed to 100M full duplex, as shown:

属性(P):	值(V):
16法级中区 大量传送减低 v2 (IPv4) 大量传送减低 v2 (IPv6) 环保节能 接收請调整最大伫列 接收缓冲区 节能乙太网路 巨型帧 查接通原和双工模式 流控制 魔术封包唤醒 网络地址 网络佛健和关切连接速度 样在比尔响曼器	100 Mbps

For PC 2 as the client, enter the following instructions: iperf3.exe-c 192.168.0.30-u-b 95M-fM-i 3-w 128M-t 6000

C:\U	sers\ZHANGLIAN	G\Desk	top\iperf-3.1	3-win64>iperf3.e	exe -c 192.168.0.30	-u -b 930M	-f M -i 3	-w 128M	-t	6000
Conn	ecting to host	192.1	68.0.30, port	5201						
[4	local 192.16	8.0.11	port 57865 c	connected to 192.	168.0.30 port 5201					
[ID] Interval		Transfer	Bandwidth	Total Datagrams					
[4	0.00-3.00	sec	327 MBytes	109 MBytes/sec	41838					
[4	3.00-6.00	sec	332 MBytes	111 MBytes/sec	42488					
[4	6.00-9.01	sec	328 MBytes	109 MBytes/sec	42017					
[4	9.01-12.00	sec	340 MBytes	114 MBytes/sec	43567					
[4] 12.00-15.00	sec	334 MBytes	111 MBytes/sec	42743					
[4] 15.00-18.00	sec	327 MBytes	109 MBytes/sec	41837					
[4] 18.00-21.01	sec	337 MBytes	112 MBytes/sec	43080					
[4	21.01-24.00	sec	334 MBytes	112 MBytes/sec	42811					
[4	24.00-27.00	sec	330 MBytes	110 MBytes/sec	42245					
[4] 27.00-30.01	sec	333 MBytes	110 MBytes/sec	42602					
[4] 30.01-33.01	sec	328 MBytes	109 MBytes/sec	42032					

At this time, the client of the PC 1 will receive the data, as shown:

Servei	r listening on	5201				
Ассөр	ted connection	from	192. 168. 0. 11	, port 59733		
[5]	local 192.168	. 0. 30	part 5201 co	nnected to 192.1	.68.0.11 pc	rt 56893
[ID]	Interval		Transfer	Bandwidth	Jitter	Lost/Total Datagrams
[5]	0.00-1.00	sec	9.71 MBytes	81.4 Mbits/sec	0.833 ms	0/1243 (0%)
[5]	1.00-2.00	sec	11.3 MBvtes	95.0 Mbits/sec	0.799 ms	0/1450 (0%)
[5]	2,00-3,00	sec	11.3 MBvtes	95.1 Mbits/sec	0.777 ms	0/1451 (0%)
Ī 5Ì	3,00-4,00	sec	11.3 MBvtes	94.8 Mbits/sec	0.814 ms	0/1446 (0%)
Î 51	4,00-5,00	sec	11.4 MBvtes	95.2 Ibits/sec	0.740 ms	0/1454 (0%)
Ì 51	5,00-6,00	sec	11.3 MBvtes	95.0 Thits/sec	0.714 ms	0/1449 (0%)
ៃទាំ	6 00-7 00	sec	11 3 MBytes	94 7 White/sec	0 703 ms	0/1446 (0%)
ៃទ័	7 00-8 00	Sec	11 4 MBytes	95 4 Thits/sec	0.784 ms	0/1456 (0%)
Ē ŠĪ	8 00-9 00	500	11 3 MBytes	04 8 White/sec	0.685 ms	0/1447 (0%)
i si	9 00-10 00	500	11 3 MBytec	94 S White/sec	0.700 mg	0/1447 (0%)
ៃនាំ	10.00-11.00	000	11 3 MBytes	Q4 Q White/eec	0.700 mg	0/1447 (0%)
ៃនាំ	11 00-12 00	sec	11 4 WBytes	95 3 White/sec	0.697 mg	0/1454 (0%)
ៃនាំ	12,00-13,00	200	11 3 MBytes	Q4 Q White/coc	0.703 mg	0/14/9 (0%)
ÈĚ	12.00-14.00	Sec	11.3 mDytes	05 1 Thits/sec	0.703 ms	0/1445 (0%)
ÈÊÌ	14.00-15.00	280	11.3 mDytes	OF 1 W1:+-/	0.000	0/14E1 (0%)
는 러	15,00-16,00	sec	11.3 mDytes	DA 7 Date/sec	0.090 ms	0/1445 (08)
는 21	10.00-10.00	sec	11.5 MDytes	94. (NDILS/SEC	0.709 ms	0/1443 (00)
L 5]	16.00-17.00	sec	11.3 Mbytes	90.1 MD1ts/sec	0.714 ms	0/1400 (0%)

Conclusion: The running results show no disorder, no packet loss, and a bandwidth of 100M is above 90M. The test is passed.

3.2 The TE1105 is used together with the TE1051

TE1105 It can be used with the single Ethernet converter TE1051 launched by same Star, realizing real-time observation of message information and recording message information in TSMaster software. The use steps are as follows:

3.2.1 Hardware Connection

TE1105 With TE1051 through the RJ-45 crystal head interface cable or MATENET Ethernet interface cable TE1051.



3.2.2 Software configuration

Channel selection-Ethernet-select the hardware TE1051



3.2.3 Hardware configuration

Bus Hardware-Ethernet1-Universal configuration

🖉 💭 📮 🗄 🖻 🖆 🕭	TSMaster v2023.12.3.1022. Built @2023-12-03 15:57:38 [Unsaved *]
77 Analysis Hardware Program Simulation Code Generation	n Test Scientific Computing Application Project Tools Help
🔨 🏭 🖅 🔣 🔛 🤮	
Channel Network Channel Vendor TOSUN TCP/IP Selecton Hardware Mapping Selecton Products Stack	
Channels Vendors Stacks	
	硬件税量 × 、
🚑 Application Channels	TSMaster Ethernet Channel 1 - TOSUN Ex TE1051 1 Ethernet Channel 1
Configuration	🔁 Default 💿 Apply
the Ethemet 1	C General Config 🔒 Dest Filter Table 🛢 Source Filter Table 🔅 Signal Protocol
	Enable Device(Opening and Closing this channel)
	Physic Type 100Base-Tx/1000Base-T v Master/Slave Master v
	Auto Negotiation(Tx)
	Speed 1000MBps v
	Loop Mode No Loop v
	Enable Promiscuous Mode(Allow all messages to pass regardless of whether there is a filter)
	Self Mac 11.22.33.44.55.66

Enabling device: Use the hardware channel

Physical interface type: T1 port or T (X) port

100/1000Base-T1	~
100Base-Tx/1000Base-T	
100/1000Base-T1	- 1

Master / slave: Master-slave mode selection



T (X) port self-negotiation mode: check the use of self-negotiation mode Speed: 100M or 1000M mode

1000MBps	~
10MBps	
100Mbps	ļ
1000MBps	

Cycle mode:

No Loop	~
No Loop	
Mac Loop	
Phy Loop	
Phy Remote Loop	

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Enounding mode (checked by default): allow all packets to pass in this mode Self-contained Mac address: It can be manually configured

	ures	5				
Mac Code	00	00	00	00	00	00
Mac Mask	00	00	00	00	00	00
	ſ	0	ок		Canc	el

Configuration is complete click on the app:

Application Channels	TSMaster Ethernet Channel 1 - TOSUN Ex TE1051 1 Ethernet Channel 1
Configuration	Z Default 🔘 Apply
cuenec i	😨 General Config 👫 Dest Filter Table 📲 Source Filter Table 🔅 Signal Protoco
	Enable Device(Opening and Closing this channel)
	Physic Type 100Base-Tx/1000Base-T ~ Master/Slave Master ~
	Auto Negotiation(Tx)
	Speed 1000MBps ~
	Loop Mode No Loop ~
	Enable Promiscuous Mode(Allow all messages to pass regardless of whether there is a filter)
	Self Mac 11.22.33.44.55.66

Note: The TE1051 software configuration is completed, and the interface indicator of TE1105 will be on after starting the project.

3.2.4 Message information

Start the project-View Ethernet message messages

							Eth	ernet 报文信息					×
	1 〒 🔺 🖸 设置・ 辺3	\$???! # :				×							2. 1 5 13 13
HSE/2.8 ☐ Time Pasurement Date Time General — Type — Channel — Segment — Packet Length H Data ☐ Length ☐ Length ☐ Length ☐ Length ☐ Length ☐ Length ☐ Length	ffi 8.187638 2033-12-01 09:39:3 Ethernet Packet Eth 1 1 14 B (0xE) Tx 28:02:00:00:00:02:00 0002 Ethernet II 0 Bytes Al Messaget	Active (m) A	清進	개□ 9 192 192 192 192 192 192 9 192	VLAN		方发发发发发发发发	(第942年19世史 90~80-905-90~97・ 90~80-95~95~97・ 90~80-55~20~ 90~80-55~20~ 90~80-55~20~ 90~80-55~20~ 90~80-55~20~ 90~80-55~20~ 90~80-55~20~	E 61704.4552 2010/2010/01/02100 001:001:001:001:001:001 001:001:001:	课IP	₩ 891P	源端口	H 69346 C
Control 1960				_									

3.2.5 Bus record

Bus record, can set the record file name, record file size, etc.

9	6 🖵	Q 🖉 🖽 🗄	1 🕹 📤						15Master v	2023 12.3.1	1022. Built @	2023-12-0	3 15:57:3	8 [Unsave	d*j			
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Start	Stop	Measurement Setup Measurem	Messages ent	Real-time Commerc	Trace *	Transmt *	Graphics	Numeric Display = Data Analy	Statistics	Database *	Gauges	Start Logging	Stop Logging	Bus Logger	Bus Replay	Log Converter I Replay	Log Directory	Video Replay =
						171				Bus Loggi	ing					×	1	
				🛃 Enabl	e Moduk	e 🕨 🛄 1	😧 Se	ttings • Le	og File: TSI	Master2023	12 07 13 2	2_01.blf				Fr. (2) .		
				Data	Fie Folder	C:\ydd\]	SMaster\b	in\Configura	tion\TOSUN	TSMaster\L	ogging\Bus\		_	Defa	*			
				Data	File Name	[Configu	ration Nam	e][System]	[ime]					Nar	ne Rule	•		
				名称			大小	项目类型	修	如日期				-			1	

3.2.6 Bus playback

	G 📽 🗏 🖺	2 🕹			<u> </u>			TSMasterv	2023 12.3.1	022. Built @2	023-12-0	15:57:38	8 [Unsave	d 4)			
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•	E			E	1	í	12	di.		0			벁	-	4000		(
Stop	Measurement Setup Measureme	Messages nt.	Real-time Comment	Trace *	Transmit *	Graphics	Numeric Display * Data Analy	Statistics *	Database	Gauges	Start Logging	Stop Logging	Bus Logge	Bus Replay	Log Converter Replay	Log Directory	Re
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Both the offline playback and the online playback modes.

Offline playback: only view the message data, load the playback file, and start the playback. Online playback: the channel needs to be connected and can be simulated during playback.

4. Inspection and maintenance

TE1105 The main electrical component is the semiconductor component, although it has a long life, it may accelerate aging in the incorrect environment, greatly reducing the life. Therefore, regular inspections should be conducted during the use of the equipment to ensure that the use environment maintains the required conditions. It is recommended to check it up at least once every 6 months to a year. Under adverse environmental conditions, more frequent examinations should be performed. In the table below, if you encounter problems during maintenance, read below to find the possible cause of the problem. If the problem is still not solved, please contact Shanghai TOSUN Technology LTD.

project	check up	standard	move about
	Check the ambient		Use the thermometer to
	temperature		check the temperature and
	(Including the internal		ensure that the ambient
	temperature of the enclosed	-40°C~+80°C	temperature remains within
	environment)		the allowable range
		Without air	Use a humidity meter to
	Check ambient humidity	conditioning, the	check the humidity and
	(Including the internal	relative humidity	ensure that the ambient
	humidity in the closed	must be at	humidity remains within the
	environment)	10%~90%	allowable range
	Check for the accumulation		
	of dust, powder, salt, and		Clean and protect the
surrounding	metal debris	No accumulation	equipment
environment	Check water, oil, or		If the cleaning and
	chemical spray collision	No spray touched	protection equipment is
	into the device	the device	required
	Check for corrosive or	No easily	
	flammable gases in the	corrosive or	Check by smelling or using
	equipment area	flammable gases	a sensor
		The vibration and	
	Check the vibration and	shock are within	Install the liner or other
	shock levels	the specified	shock absorber, if required



		limits	
		There are no	Isolation equipment and
	Check the noise sources	significant noise	noise sources or protection
	near the equipment	signal source	equipment
		There is sufficient	
	Check the crimp connectors	space between the	Visual scopic inspection
	in the external wiring	connectors	adjust if necessary
Install wiring	Check for the damage to		Visual inspection and
	the external wiring	No damage	replace wiring if necessary

5. Precautions

① Connecting the circuit to avoid a short circuit.

⁽²⁾ Before using the equipment, please carefully consult the pin information in the product use manual.

③ During the operation of the equipment, be careful to properly connect the power cord and avoid plugging and plugging.

④ pay attention to! Damage caused by electrostatic discharge (ESD).

6. Disclaimer

Shanghai TOSUN Technology, LTD. based on the principle of providing better service for users, will present detailed and accurate product information for users as much as possible in this manual. However, since the content of this manual has a certain timeliness, TOSUN Technology cannot fully guarantee the timeliness and applicability of the document in any period of time. TOSUN Technology has the right to update the contents of this manual without notice. In order to get the latest version of the information, please visit the official website of TOSUN Technology regularly or contact the staff of TOSUN Technology regularly. Thank you for your tolerance and support!



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同星智能的核心软件TSMaster及配套硬件设备,具备嵌入式代码生成、汽车总线分析、 仿真、测试及诊断、标定等核心功能,覆盖了汽车整车及零部件研发、测试、生产、试验、 售后全流程。

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- ·剩余总线仿真
- C/Python脚本
- ·总线监控/发送
- ・SOMEIP和DoIP

硬件

- ・1/2/4/8/12通道CAN FD/CAN转USB工具
- ・1/2/6通道LIN转USB工具
- ·10通道CAN FD/CAN转以太网工具
- ·多通道Flexray/CAN FD转USB工具
- ・多通道车载以太网/CAN FD转USB工具
- ・车载以太网介质转换工具(T1转Tx)
- ・多通道CAN FD/Ethernet/LIN记录仪

CAN CAN lin CA

解决方案

- ・EOL测试设备
- ·FCT测试设备
- ·汽车"四门两盖"试验解决方案
- ·线控底盘测试解决方案
- ·电机性能/耐久试验解决方案
- ·新能源产线设备解决方案
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