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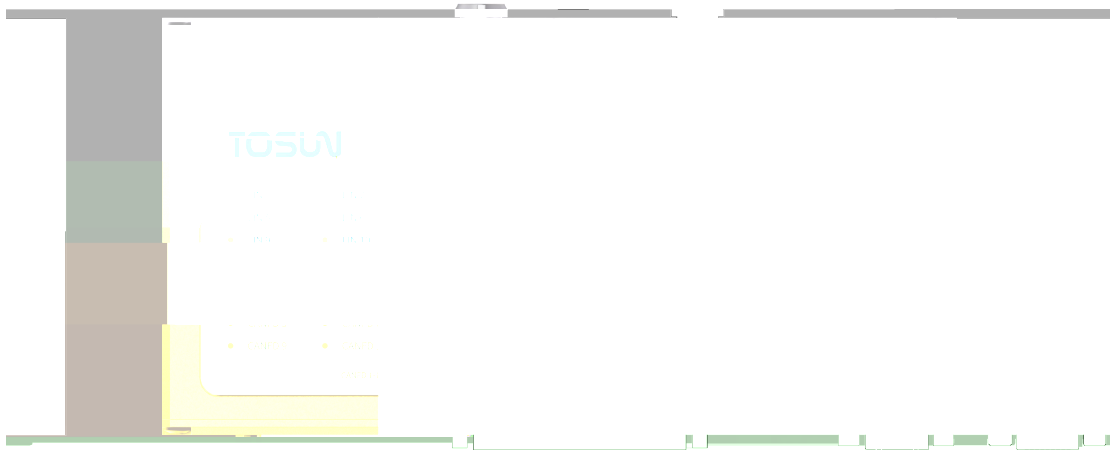
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@ 2024-2025

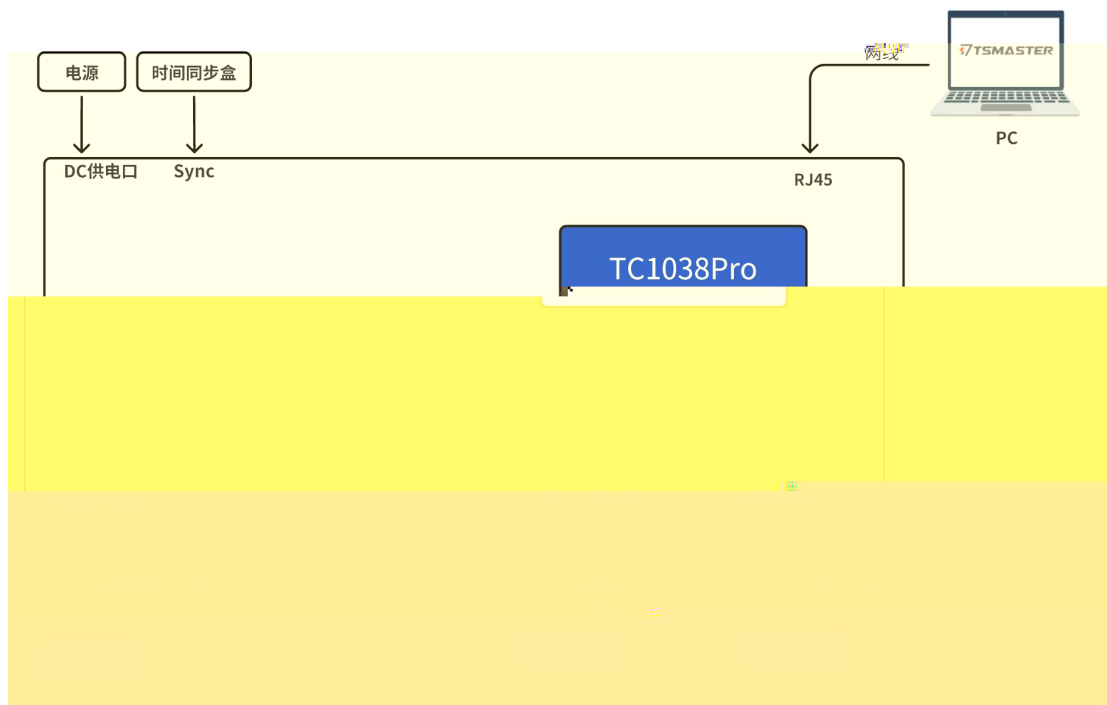
TC1038 Pro

- TC1038 Pro CAN/CAN FD LIN
TC1038 Pro ECU
- TC1038 Pro 12 CAN/CANFD 12 LIN
4 DI DO 3 AI AO
- TC1038 Pro
PC PC
- TC1038 Pro TSMaster TSMaster
UDS ECU CCP/XCP



- CAN/CAN FD
- LIN
- DI DO AI AO
- ECU
- ECU
- ...

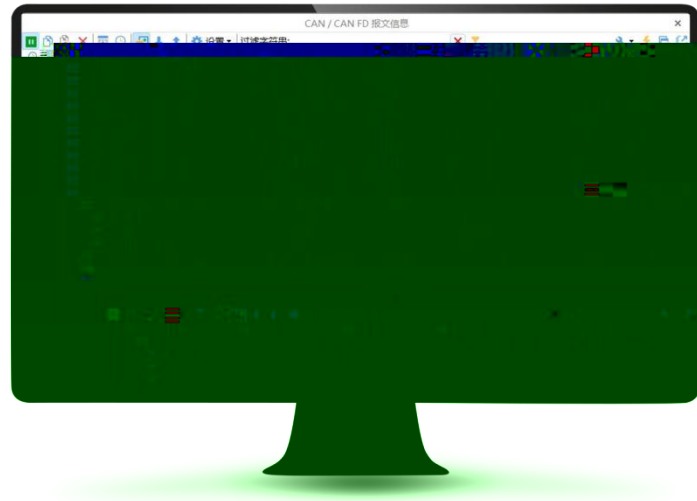
TC1038 Pro



1.	.....	5
1.1	.....	5
1.2	.....	5
2.	.....	6
2.1	.....	6
2.2	.....	7
2.3	.....	8
2.4	.....	9
3.TC1038 P	.....	11
3.1	.....	11
3.2	.....	12
3.3	.....	13
3.4	.....	14
3.5	.....	14
3.6	15
3.7	16
3.8 LED	18
3.9	19
4.	20
4.1	20
4.2	20
4.3	21
4.4	21
4.5	TSM	22
5.	24
6.	25

2.

2.1



TSMaster / / / /

•

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DBC LDF XML ARXML

•

BLF ASC

•

-

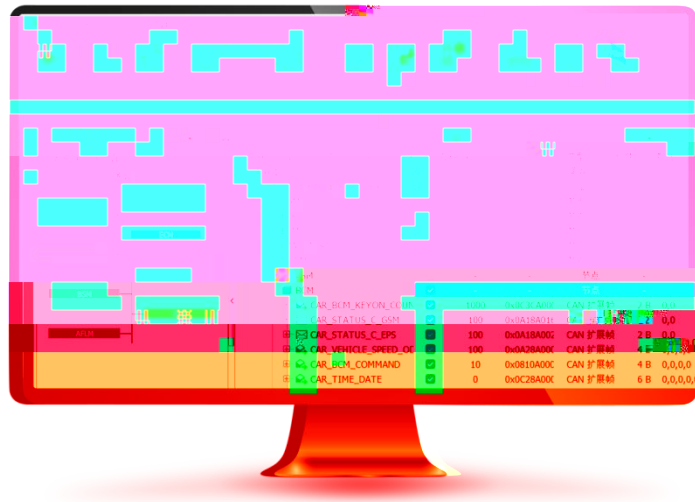
DBC

ID

-

Y

2.2



TSMster

CAN LIN

HI L

ECU

TSMster

Panel

-

CAN

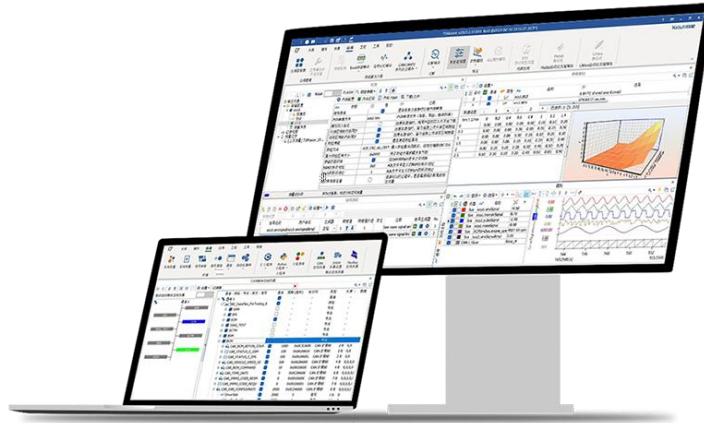
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LIN

-

J1939

2.4



CCP

CAN Controller Area Network

ECU

ECU

XCP

CAN Ethernet

ECU

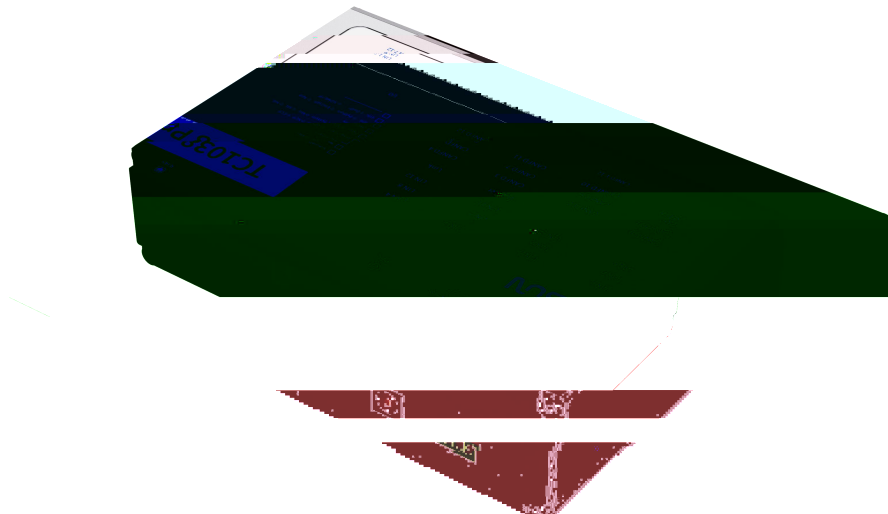
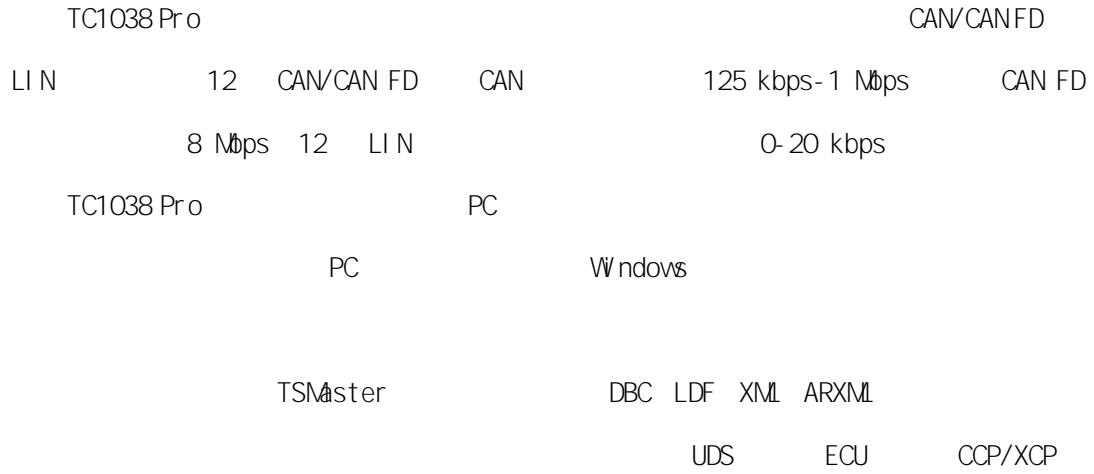
ECU

CCP XCP

ECU

3.TC1038 Pro

3.1



3.2

- ✓
- ✓ Windows
- ✓ 12 CAN/CAN FD 12 LIN
- ✓ DI DO *4 AI AO *3;
- ✓ CAN 125 kbps-1 Mbps CAN FD 8 Mbps
- ✓ LIN
- ✓ CAN 120
- ✓ CAN Self-ACK
- ✓ BLF ASC /
- ✓
- ✓ API

3.3

	12* CAN FD 12* LI N 4* DI DO 3* AI AO
PC	RJ45
CAN	DB37 MAl e
LI N	DB9 MAl e
I /O	DB9 Femal e
	W ndovs
CAN	CAN2.0A B ISO11898-1 125kbps—1Mbps
CAN FD	ISO ISO CAN FD 125kbps-8Mbps
LI N	LI N1.3 2.x 0-20kbps
	1us
CAN	120
	CAN DC2500V
DI DO	DI 0-40V Vref: 0-3.3V : $V_{AH} = (330 + 499 * V_{ref}) / 1098$; $V_{Al} = 0.455 * V_{ref}$ DO 0V 5V/12V
AI AO	AI 0-39V AO 0-30V
	DC
	10W
	210*118*47mm
	878g / 2110g
	-40 ~80
	10% 90%

3.4

DC	CAN	LI N	9	12	28	V
DC	CAN	LI N	--	0.42	--	A
DC	CAN	LI N	--	5.0	--	W
		CANH CAHL	-58	--		

CAN

M

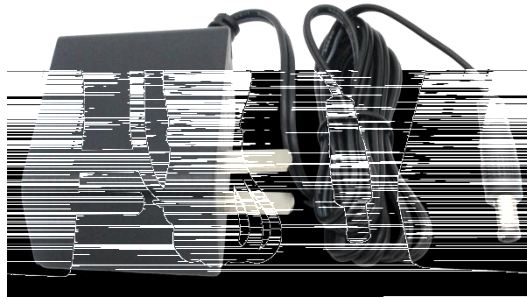
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3.6

- ✓ TC1038 Pro



- ✓ 12V2A



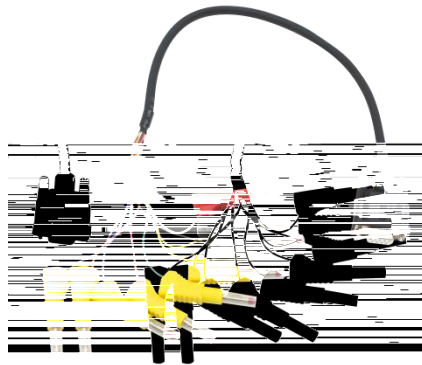
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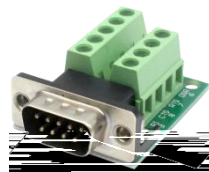
- ✓ DB37 12 DB9



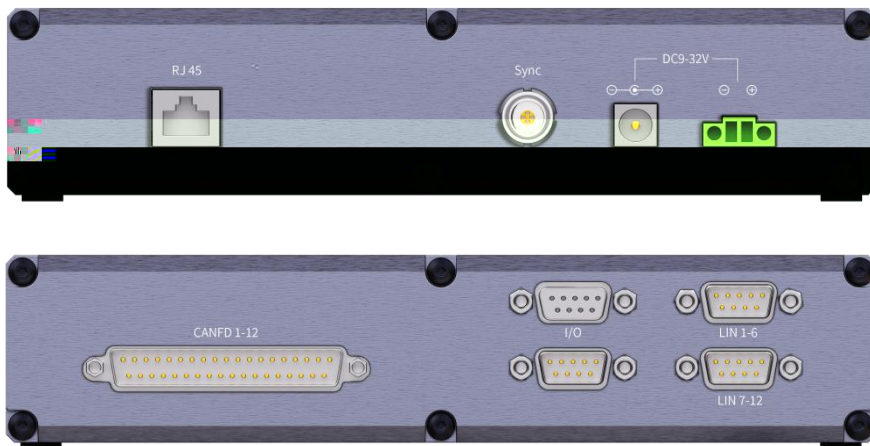
✓ DB9 LIN *2



✓ DB9 *1



3.7



- 1000Base-T RJ 45
-
-
-
- DB37 Male CAN/CAN FD

PI N20	CAN FD1_HI GH	PI N1	CAN FD1_LOW
PI N21	CAN FD_SHI ELD	PI N2	CAN FD_GND
PI N22	CAN FD2_HI GH	PI N3	CAN FD2_LOW
PI N23	CAN FD3_HI GH	PI N4	CAN FD3_LOW
PI N24	CAN FD_SHI ELD	PI N5	CAN FD_GND
PI N25	CAN FD4_HI GH	PI N6	CAN FD4_LOW
PI N26	CAN FD5_HI GH	PI N7	CAN FD5_LOW
PI N27	CAN FD_SHI ELD	PI N8	CAN FD_GND
PI N28	CAN FD6_HI GH	PI N9	CAN FD6_LOW
PI N29	CAN FD7_HI GH	PI N10	CAN FD7_LOW
PI N30	CAN FD_SHI ELD	PI N11	CAN FD_GND
PI N31	CAN FD8_HI GH	PI N12	CAN FD8_LOW
PI N32	CAN FD9_HI GH	PI N13	CAN FD9_LOW
PI N33	CAN FD_SHI ELD	PI N14	CAN FD_GND
PI N34	CAN FD10_HI GH	PI N15	CAN FD10_LOW
PI N35	CAN FD11_HI GH	PI N16	CAN FD11_LOW
PI N36	CAN FD_SHI ELD	PI N17	CAN FD_GND
PI N37	CAN FD12_HI GH	PI N18	CAN FD12_LOW
		PI N19	CAN FD_GND

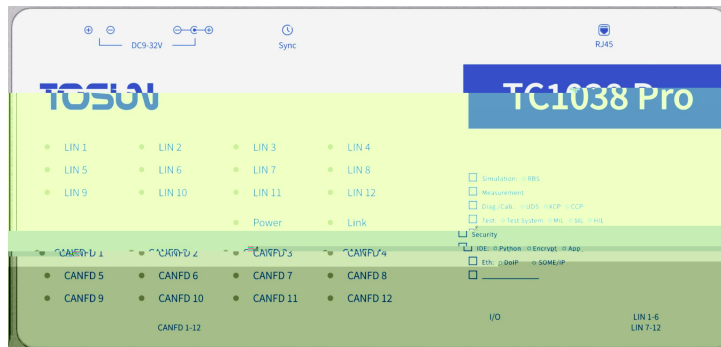
➤ DB9 Female I/O

	I/O	PI N1	DI DO1
		PI N2	DI DO3
		PI N3	DGND
		PI N4	AI AO1
		PI N5	AI AO3
		PI N6	DI DO2
		PI N7	DI DO4
		PI N8	AGND
		PI N9	AI AO2

➤ DB9 Male LIN

	LIN 1-6	PI N1	LI N1	LIN 7-12	PI N1	LI N7
		PI N2	V_Bat		PI N2	V_Bat
		PI N3	LI N2		PI N3	LI N8
		PI N4	GND		PI N4	GND
		PI N5	LI N3		PI N5	LI N9
		PI N6	LI N4		PI N6	LI N10
		PI N7	LI N5		PI N7	LI N11
		PI N8	GND		PI N8	GND
		PI N9	LI N6		PI N9	LI N12

3.8 LED



Power	
Li nk	
CAN FD 1-12	CAN FD 1-12
LI N 1-12	LI N 1-12

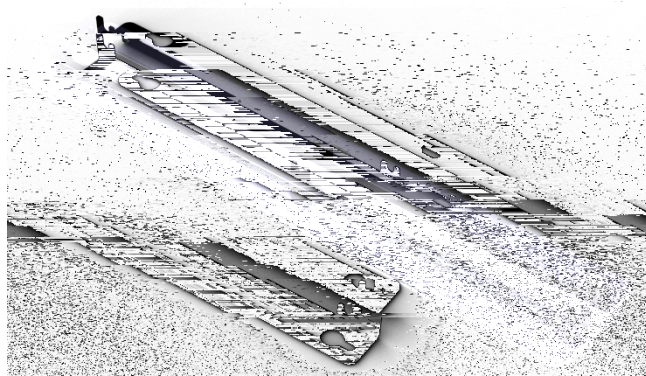
/

/	
Power	
Li nk	ETH

CAN FD	CAN FD
CAN FD	CAN FD
LI N	LI N
LI N	LI N

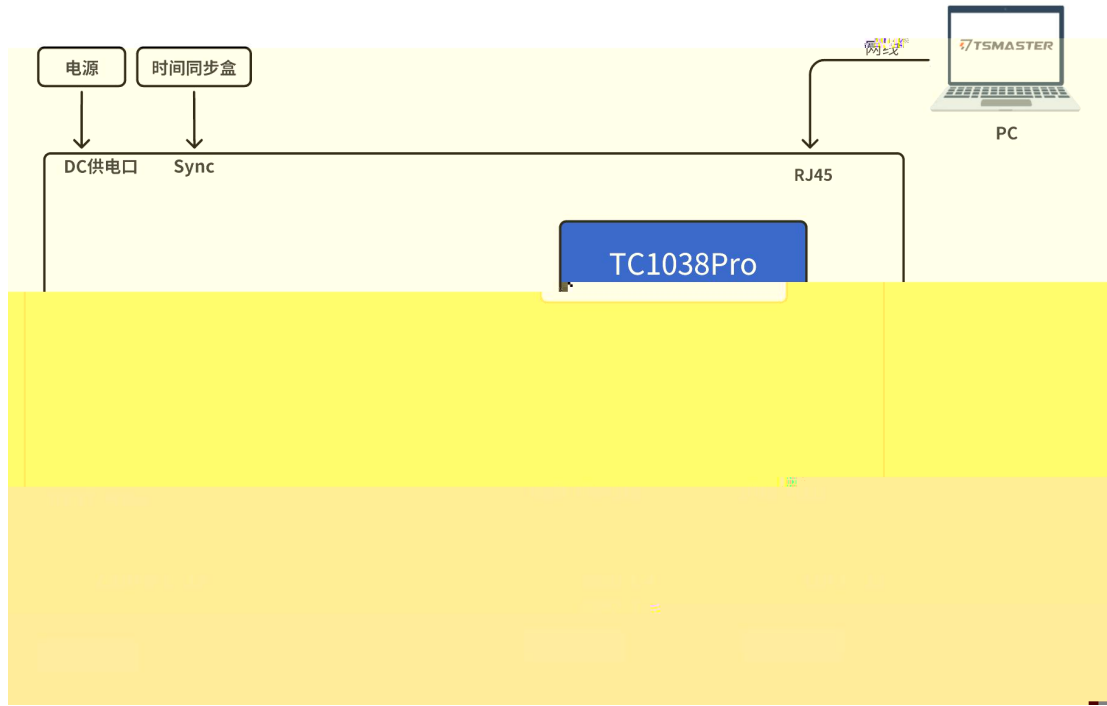
3.9

1.



4.

4.1

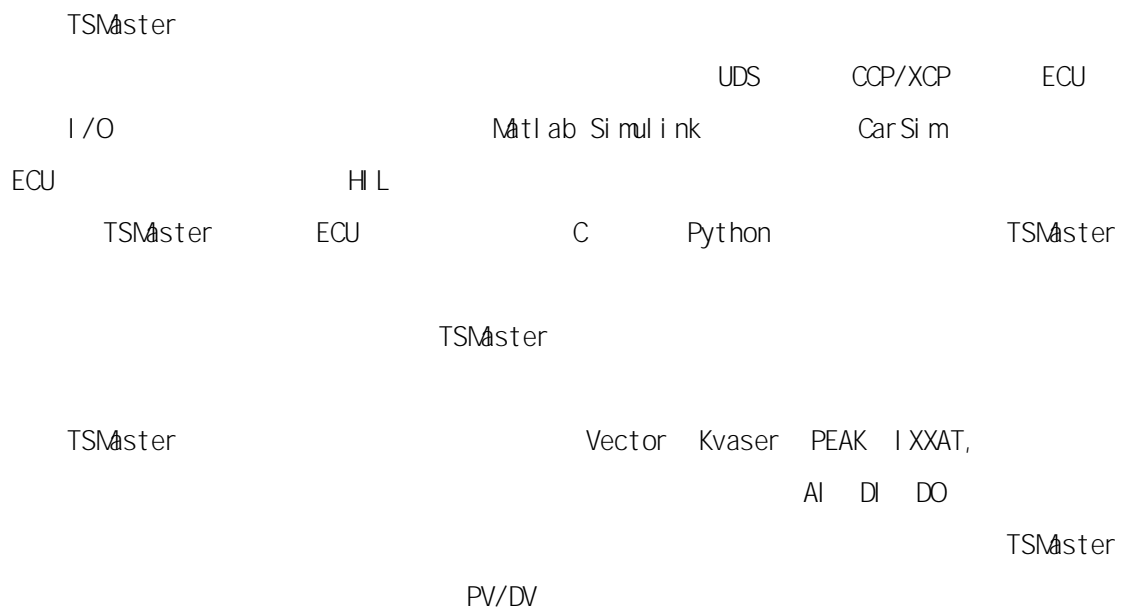
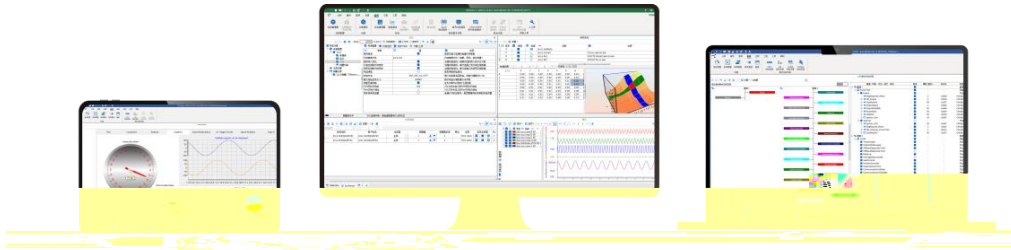


TC1038 Pro	DC 12V	RJ 45
PC	CAN/CANFD LIN DI DO AI AO	ECU
PC TSMster	TC1038 Pro ECU	

4.2

Windows

4.3



4.4

TSMaster

<https://www.tosunai.com/downloads/>

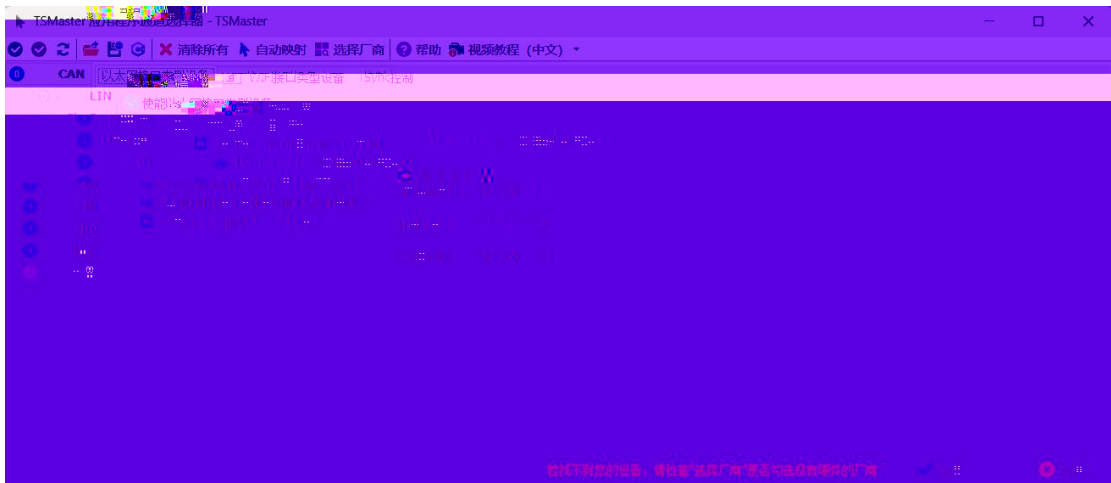


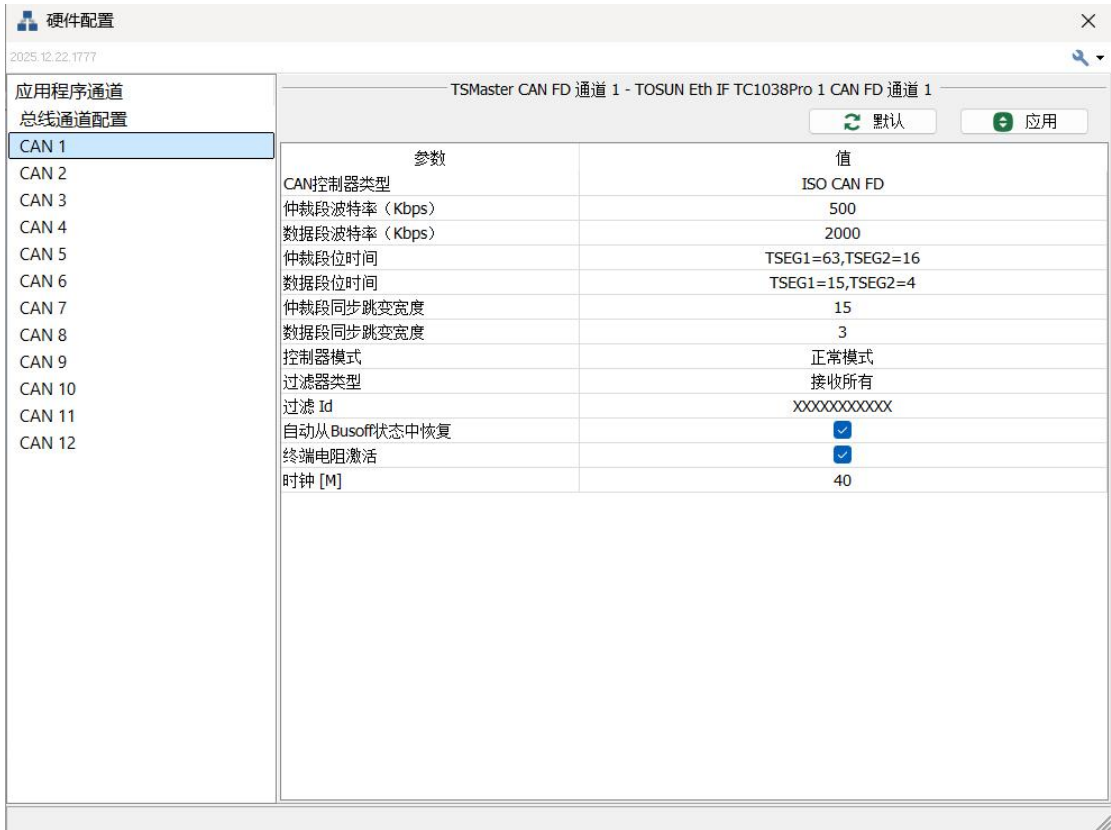
PC



4.5 TSMaster

PC	IP	192.168.1.x	TC1038 Pro
TSMaster		-	TC1038 Pro





TSMaster

ECU

TSMaster

TSMaster

5.

TC1038 Pro

6

+12V DC

(t) - 40 ~ +80

() 10%-90%

6.

