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Contents

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	1.5
	4 , 8
	150 * 7.6* 72
	422.6
	10% 0% ( )
	36

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	- (118 8-2)
	(118 8-1)
	1
	82.5%
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	- 120 ,

CAN S ecifica ion (C om Mode)

Pa ame e	De c i ion
	- (11 -2)
	(11 -1)
	12 1
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	- 120 ,
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F nc ional S ecifica ion

Pa ame e	De c i ion

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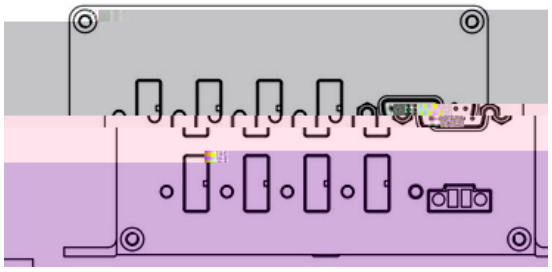
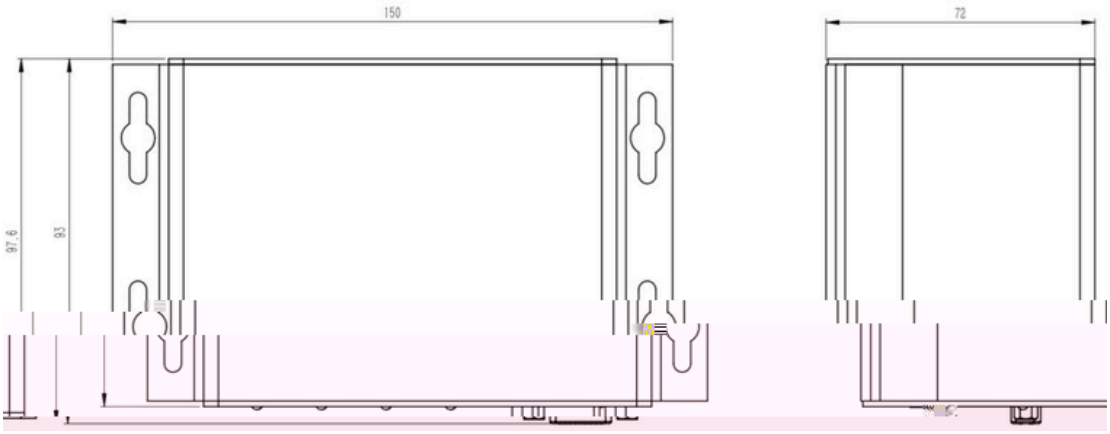
□ **D**





1.3. D

□ **CA I**

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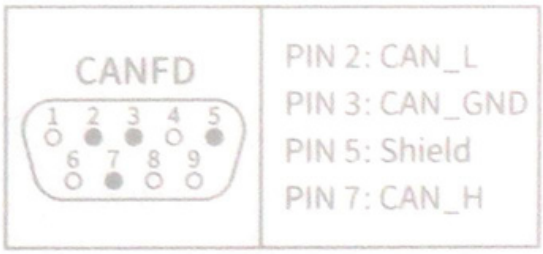
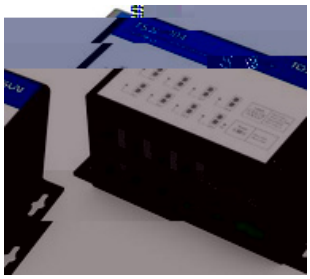

CANFD
1 2 3 4 5
6 7 8 9
PIN 2: CAN_L
PIN 3: CAN_GND
PIN 5: Shield
PIN 7: CAN_H

1-3 ( )

- O S : W
-
- PDF
- TS3004 DBC

> T S TOSUN
> T L .: :// . . /

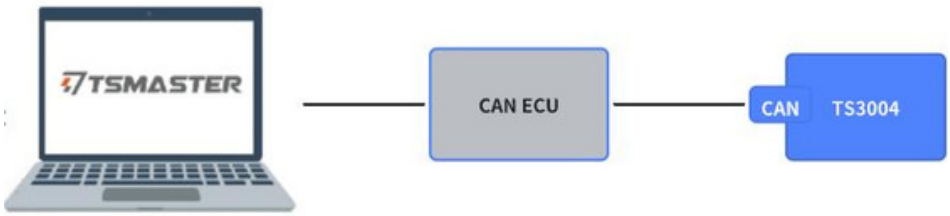


Figure 2-1 Example in Windows

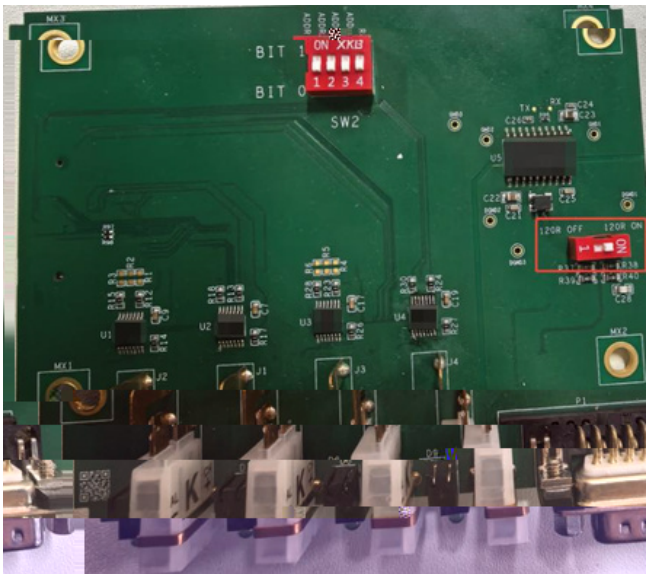
For TSMaster installation instructions, please refer to the appendix.

The TS3004 provides one CAN interface for communication with other CAN devices.

A built-in termination resistor is available and can be enabled or disabled usi

DIP switch configuration:

To configure the termination resistor, remove the enclosure cover and locate the red DIP switch labeled “120R ON” on the board. Use the this switch to enable or disable the termination resistor.


BIT 1
BIT 0
ON
1 2 3 4
SW2
120R OFF
120R ON

-

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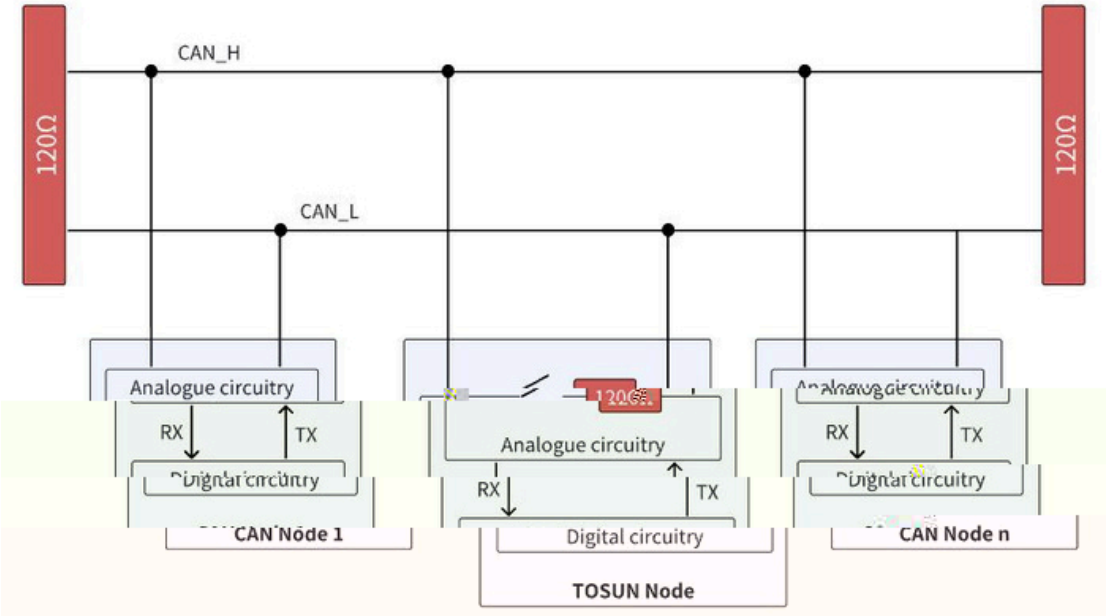
- ,

. 1 0

, 0 .


120Ω
CAN_H
CAN_L
120Ω
Analogue circuitry
RX
TX
Digital circuitry
CAN Node 1
Analogue circuitry
RX
TX
Digital circuitry
TOSUN Node
RX
TX
Digital circuitry
CAN Node n

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2.2.2. Multi-Device Communication Configuration in Default Mode

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1000 .

2.3.1. Periodic Report Message Configuration

	CMD: 8 C : 8 : 32/ 1& 2: 8							

	0 01 0 02 0 03 0 04 0 05 0 0 0 0
	0 0 0 00 0 03

	℃							

2.3.5. R a T ● T a

Purpose	Read the current thermocouple temperature.							
CMD:0x2F	B0	B1	B2	B3	B4	B5	B6	B7
Request	Channel							
Response	Result	Channel	Temperature					
Parameter Description	C : 8 Thermocouple channel number, ranging from 1 to 8. : 16 F = 0.05 = -273.15 ℃ temperature value							
Remarks	One temperature value is reported for each request.							

2.3.6. S CAN M

Purpose	Command is issued in Default Mode; parameters take effect in Custom Mode.							
CMD:0x62	B0	B1	B2	B3	B4	B5	B6	B7
Request	SubCMD	FDOE / NBRP / NTSEG1 / NTSEG2 / NSJW / DBRP / DTSEG1 / DTSEG2 / DSJW / Reserve/ ABOM						
Response	Result	SubCMD						

S CMD: U8

EDOE: U1

NBRP: U5 NTSEG1: U8 NTSEG2: U7 NSJW: U7

DBRP: U5 DTSEG1: U5 DTSEG2: U4 DSJW: U4

Ba a = _CAN / [(BRP + 1) (1 + TSEG1 + TSEG2 +1 +1)

BRP=0, TSEG1=30, TSEG2=7 1 M

BRP=0, TSEG1=2, TSEG2=0 8 M

R : U1

ABOM: U1

	□

2.3.7. Set Message Parameters

	: : : □ □ : □ □ :							

	□ 0: Disabled (default); □ 1: Enabled. Range: 0~15 Supported values: 0x03(3bytes,default) 0x0A(16bytes) When DLC = 0x0A, FDF must be set to 1, otherwise the configuration is invalid. DataN=CDxt0 ronbamonepoictenoieme,eocidheNe'cegi0e ae n o t ReportingperiodfollowsChannel1'sconfiguredperiod. Temperature conversion: Temperature (°C) = RawValue × 0.05 − 290

2.4. Fault Code Description

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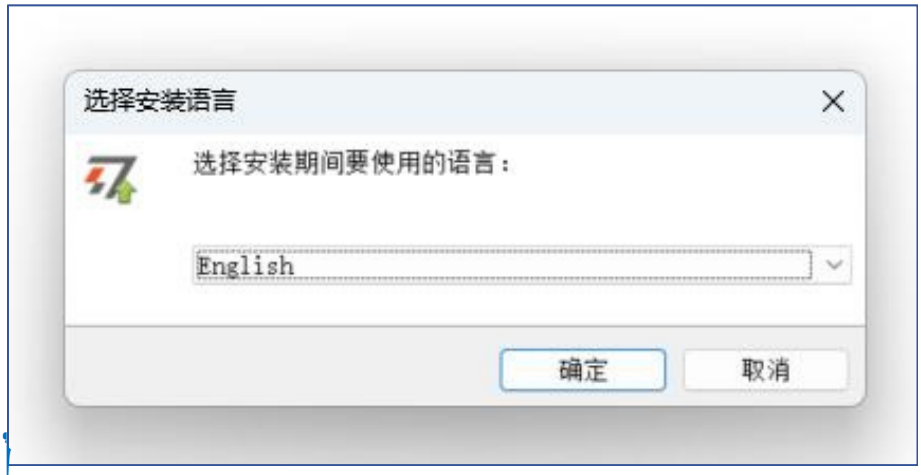
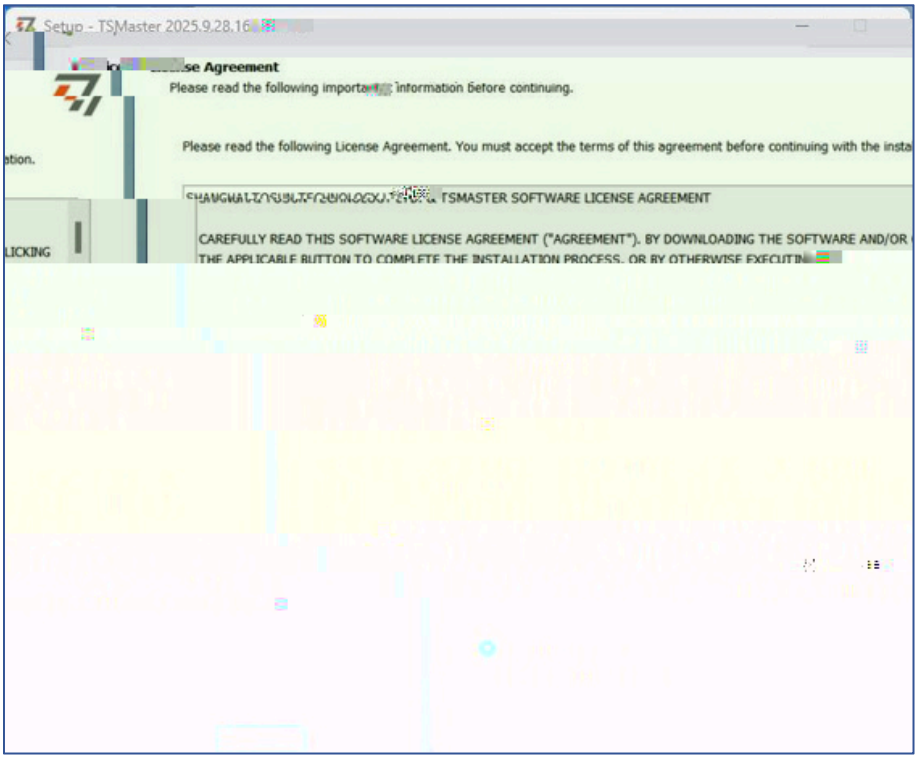


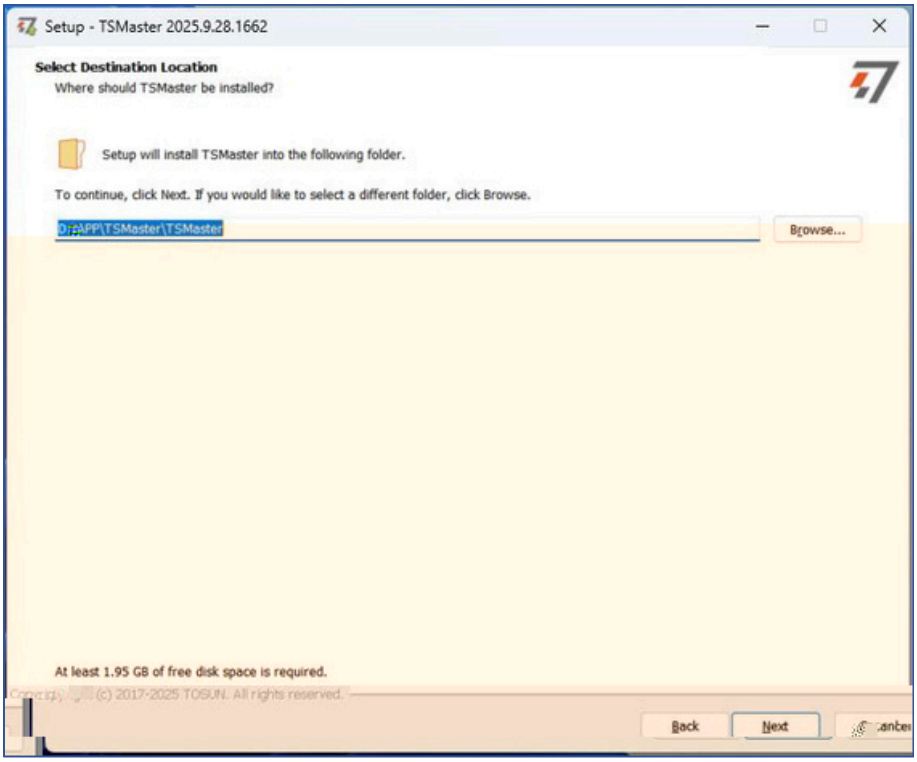
F 3-2 TSMa I a a

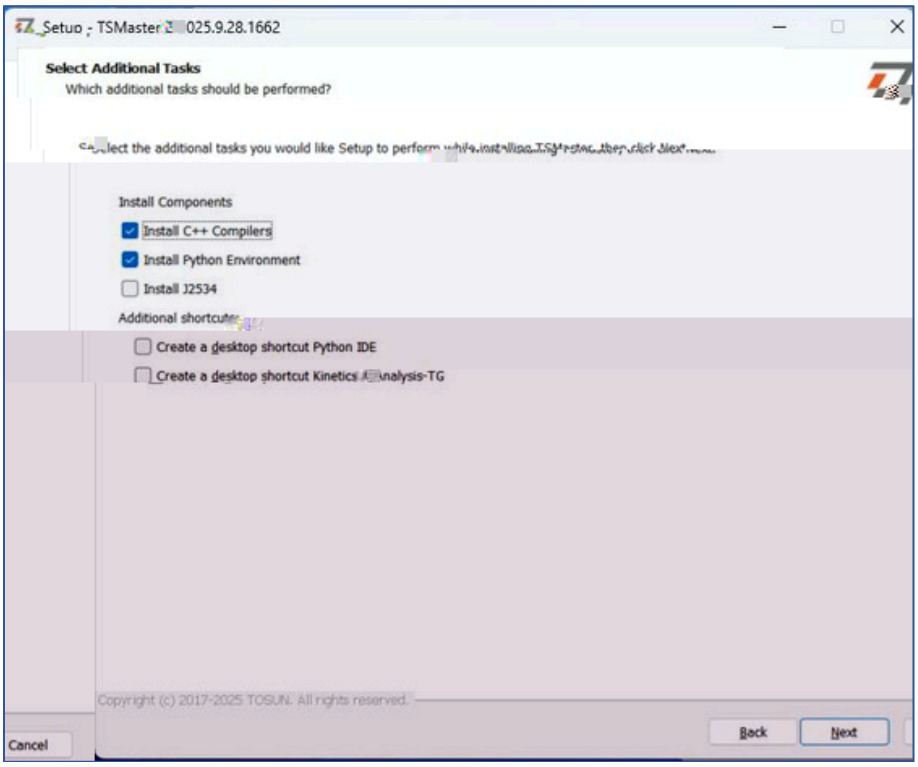
2. A a a N .

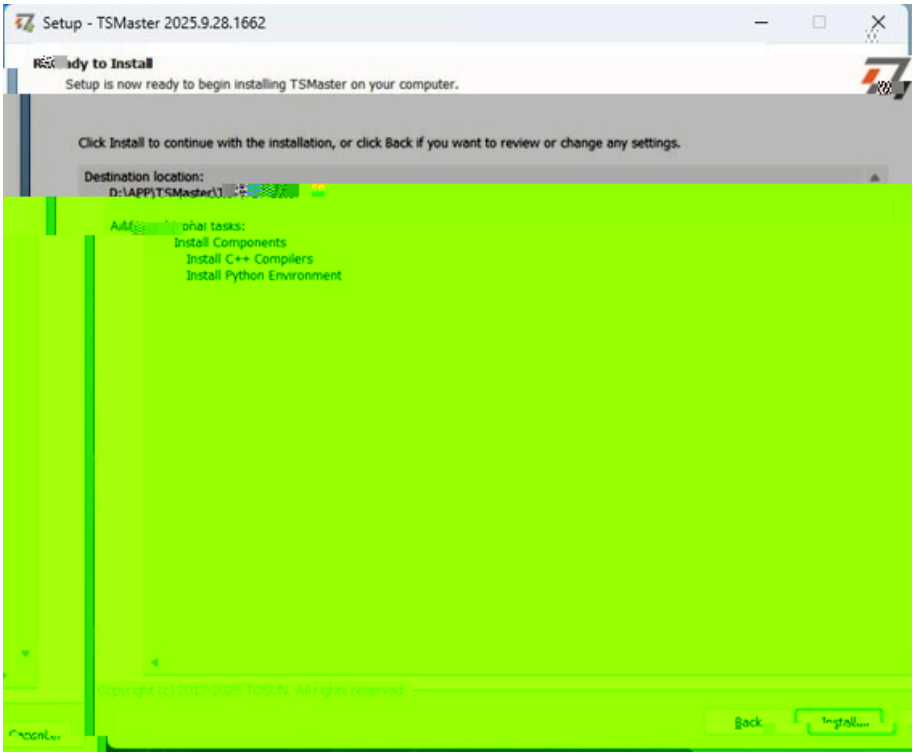


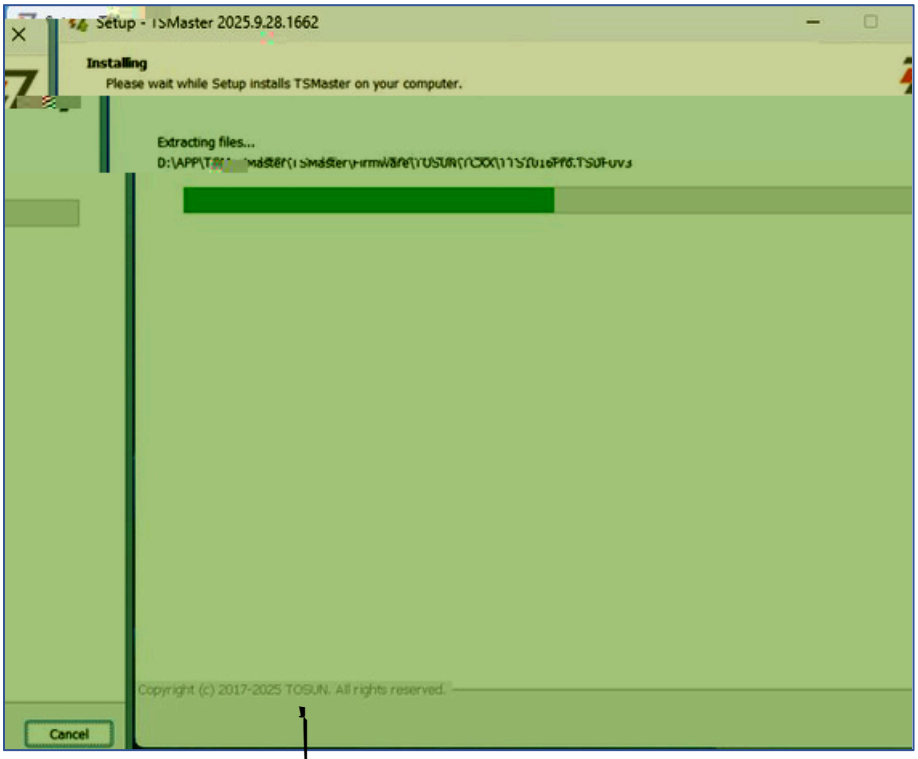
F 3-3 TSMa I a a

3. C a a a a N .


Setup - TSMaster 2025.9.28.1662
Select Destination Location
Where should TSMaster be installed?
Setup will install TSMaster into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
D:\APP\TSMaster\TSMaster
Browse...
At least 1.95 GB of free disk space is required.
(c) 2017-2025 TOSUN. All rights reserved.
Back
Next

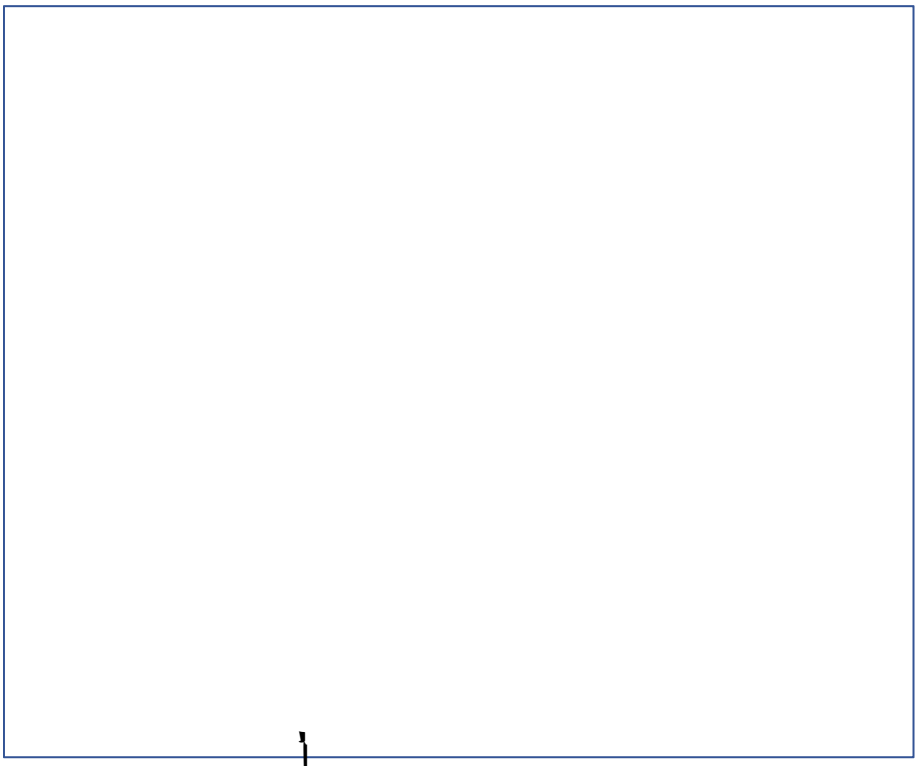

Select Additional Tasks
Which additional tasks should be performed?
Install Components
Install C++ Compilers
Install Python Environment
Install J2534
Additional shortcuts
Create a desktop shortcut Python IDE
Create a desktop shortcut Kinetics
nalysis-TG
Copyright (c) 2017-2025 TOSUN. All rights reserved.
Cancel
Back
Next


Setup - TSMaster 2025.9.28.1662
Setup is now ready to begin installing TSMaster on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
Additional tasks:
Install Components
Install C++ Compilers
Install Python Environment
Back
Install...



F e 3-7 TSMa e I a a

6. C c F c e e a a .



F e 3-8 TSMa e I a a

3004 ,

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		(-40℃ +80℃)	
		(10% 90%)	

- **Mechanical S re & EMI Check**

I em	Check Con en	S andard/ Range	Ac ion/Mea re

- **In alla ion & Wiring Check**

I em	Check Con en	S andard/ Range	Ac ion/Mea re

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