I-2533T-FD Quick Start

v1.1, April 2023

Packing List

In addition to this guide, the package includes the following items:

I-2533T-FD

Screw Driver

Technical Support

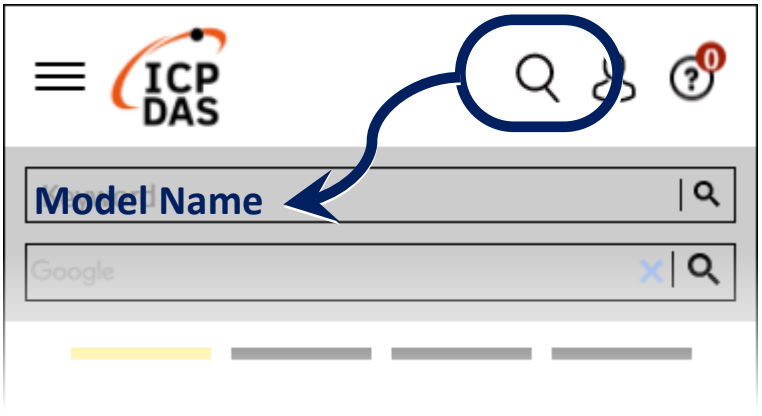
service@icpdas.com

www.icpdas.com

Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



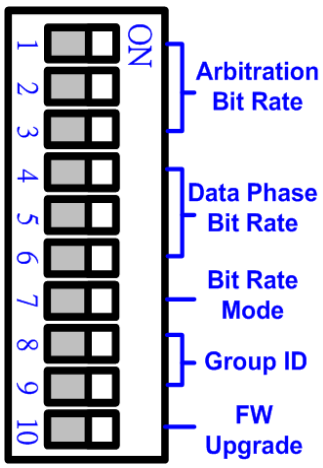
- For Desktop Web

1 Hardware Installation

Before using I-2533T-FD device, some things must be done.

Step 1: Prepare one pair of I-2533T-FD

Step 2: Set the CAN/CAN FD baud rate and check the module group ID setting of each I-2533T-FD

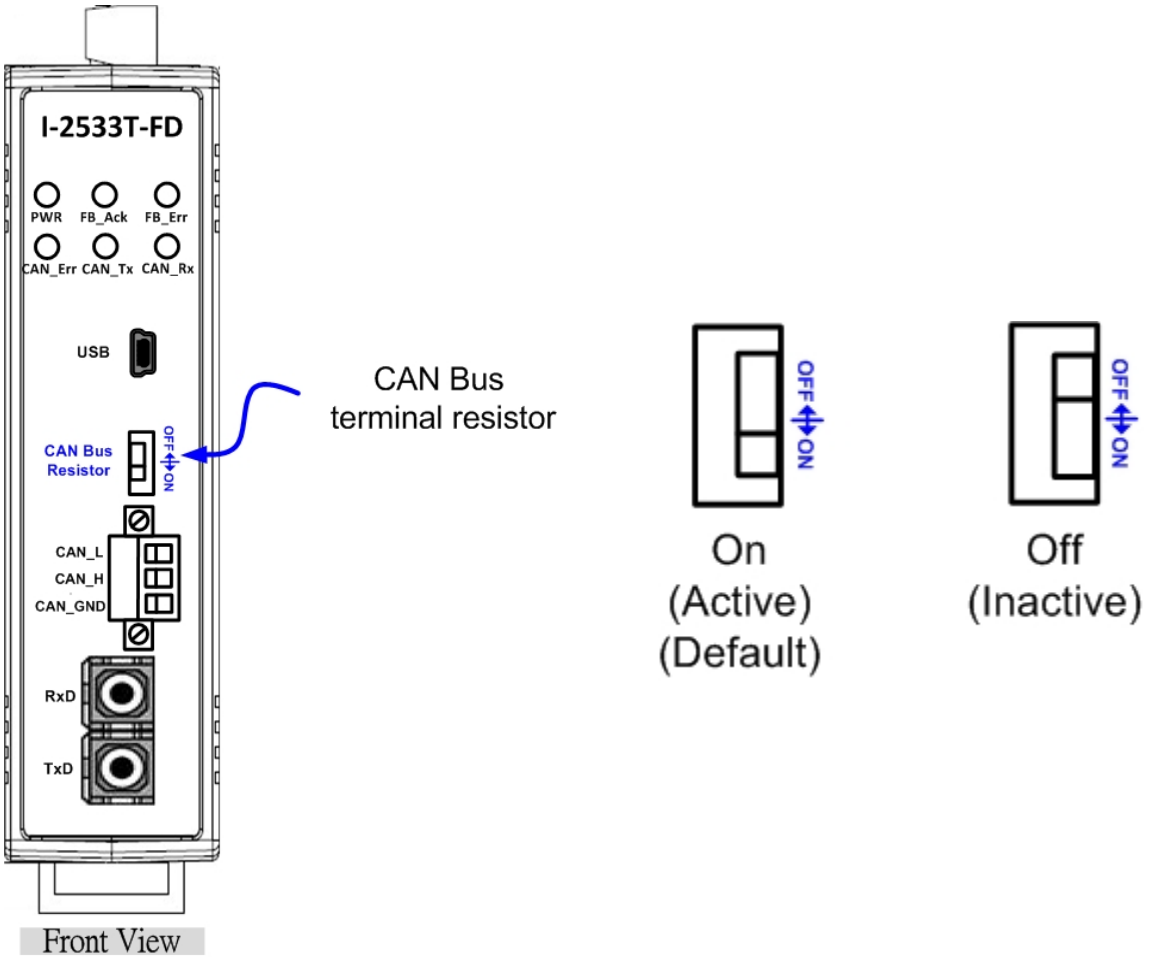
<table>
<tr><th>10-pin dip switch</th><th>Pin</th><th>Switch Function</th><th>Description</th></tr>
<tr><td rowspan="3"> 

■ : ON
□ : OFF</td><td>1 ~ 3</td><td>Arbitration Bit Rate of CAN/CAN FD message</td><td><table>
<tr><th>Bit Rate (kbps)</th><th>1</th><th>2</th><th>3</th></tr>
<tr><td>10</td><td>□</td><td>□</td><td>□</td></tr>
<tr><td>20</td><td>■</td><td>□</td><td>□</td></tr>
<tr><td>50</td><td>□</td><td>■</td><td>□</td></tr>
<tr><td>125</td><td>■</td><td>■</td><td>□</td></tr>
<tr><td>250</td><td>□</td><td>□</td><td>■</td></tr>
<tr><td>500</td><td>■</td><td>□</td><td>■</td></tr>
<tr><td>800</td><td>□</td><td>■</td><td>■</td></tr>
<tr><td>1000</td><td>■</td><td>■</td><td>■</td></tr>
</table></td></tr>
<tr><td>4 ~ 6</td><td>Data Phase Bit Rate of CAN FD message</td><td><table>
<tr><th>Bit Rate (kbps)</th><th>1</th><th>2</th><th>3</th></tr>
<tr><td>100</td><td>□</td><td>□</td><td>□</td></tr>
<tr><td>125</td><td>■</td><td>□</td><td>□</td></tr>
<tr><td>250</td><td>□</td><td>■</td><td>□</td></tr>
<tr><td>500</td><td>■</td><td>■</td><td>□</td></tr>
<tr><td>800</td><td>□</td><td>□</td><td>■</td></tr>
<tr><td>1000</td><td>■</td><td>□</td><td>■</td></tr>
<tr><td>2000</td><td>□</td><td>■</td><td>■</td></tr>
<tr><td>3000</td><td>■</td><td>■</td><td>■</td></tr>
</table></td></tr>
<tr><td>7</td><td>Bit Rate Mode</td><td>ON:
Use Arbitration/ Data Phase bit rate setting by Utility configuration</td></tr>
</table>

<table>
<tr><td rowspan="3"></td><td></td><td></td><td colspan="4">OFF:
Use Arbitration/ Data Phase bit rate setting by dip switch setting</td></tr>
<tr><td>8 ~ 9</td><td>Module’s group ID</td><td></td><td>Group ID value</td><td>8</td><td>9</td></tr>
<tr><td></td><td>00</td><td>□</td><td>□</td></tr>
<tr><td></td><td>10</td><td>■</td><td>□</td></tr>
<tr><td></td><td>02</td><td>□</td><td>■</td></tr>
<tr><td></td><td>03</td><td>■</td><td>■</td></tr>
<tr><td>10</td><td>Firmware upgrade mode</td><td colspan="4">ON:
Into firmware upgrade mode.
OFF:
Into normal operating mode.</td></tr>
</table>

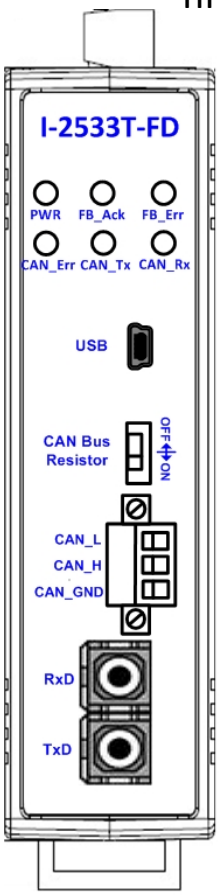
Step 3: Determine if the terminal resistor is needed or not

Check the application structure, and determine if the terminal resistor is needed or not. You can find it at the position as follows.

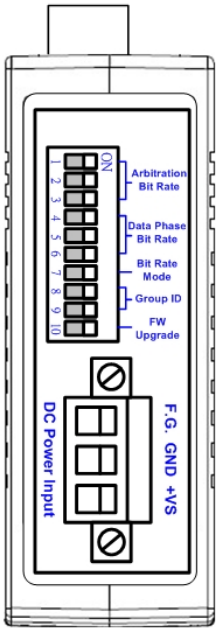


Step 4: Connect the fiber port, CAN port, power line and frame ground of these I-2533T-FD.

The pin assignment and wire connection are as follows. When finished. run your application with the I-2533T-FD.



Front View



Bottom View

Port	Name	Description
USB	USB	Used for configuration utility
CAN	CAN_L	CAN_Low, signal line of CAN port.
	CAN_H	CAN_High, signal line of CAN port.
	CAN_GND	CAN_Ground, ground voltage level of CAN port.
Fiber	TxD	Transmit optic data.
	RxD	Receive optic data.
Power	+Vs	Voltage Source Input. +10V_{DC} ~ +30V_{DC}.
	GND	Power Ground.
	F.G.	Frame Ground.