

I-2533CS-FD Quick Start

Packing List

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



Resources

Technical Support

service@icpdas.com www.icpdas.com How to search for drivers, manuals and spec information on ICP DAS website.

• For Mobile Web



• For Desktop Web



Hardware Installation

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

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

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

10-pin dip switch	Pin	Switch Function	Description				
			Bit Rate (kbps)	1	2	3	
	1~3	Arbitration Bit Rate of CAN/CAN FD message	10				
			Arbitratian Dit	20			
			50				
			125				
			250				
N → Arbitration			500				
			800				
₽ Data Phase			1000				
∽ Bit Rate	4~6	Data Phase Bit Rate of CAN FD message	Bit Rate (kbps)	1	2	3	
Bit Rate			100				
∞ Mode			125				
			250				
FW			500				
			800				
■ : ON □ : OFF			1000				
			2000				
			3000				
	7	Bit Rate Mode	Data ility	a Pha	ase b	oit	

		OFF: Use Arbitration/ Data Phase bit rate setting by dip switch setting				
8~9	Module's group ID		Group ID value	8	9	
			00			
			10			
			02			
			03			
10	Firmware upgrade mode	ON: Into firmware upgrade mode. OFF: Into normal operating mode.				

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.



Generally, if your application is as follows, we recommend you to enable the terminal resistor.



If your application is like the structure as follows, the terminal resistor is not needed.



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

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



Utility tool

When users want to use user-defined CAN/CAN FD baud rate and CAN message filter, I-2533CS-FD Utility tool may be needed.

Step 1: Install the I-2533CS-FD Utility

The software is located at:

http://www.icpdas.com/en/download/show.php?num=2454&m odel=I-2533CS-FD

Step 2: Setting up I-2533CS-FD module

 Connect the PC available USB port with the USB port of the I-2533CS-FD. Users can find the communication cable (CA-USB10) in the product box.



2. Execute the I-2533CS-FD Utility tool.

Step 3: Connect to I-2533CS-FD module

Press the "Refresh" button to scan and list all the necessary I-2533CS-FD modules on "Module Name" location. Then select the necessary I-2533CS-FD module and press "Connect" button to start to connect with it.

- 1	Iodule Name			
	I-2533CS-FD (19277700) 🛛 🗸	ŀ	Refresh	Connect



1. User can set the CAN port operation mode and user-defied CAN baudrate parameters on the "CAN Port Settings" frame. All settings will take effect after reboot the module.

CAN Port Settings							
CAN Mode (CAN FD Non-ISO)							
User-Defined CAN Baud Rate Settings							
%							
% Set							

[CAN Mode] "CAN FD" :	Set the CAN port into CAN FD mode. When setting the CAN port into CAN FD mode, the CAN port can process CAN/CAN FD messages, otherwise this port just can process CAN messages.
"Non-ISO":	Non-ISO operation. If this parameter is checked, the module uses the CAN FD frame format as specified by the Bosch CAN FD Specification V1.0. Otherwise, CAN FD frame format will follow according to ISO11898-1.
[User-defined CA	N Baud Rate Settings]
"Arbitration":	CAN/CAN FD arbitration phase bit rate. Valid
	range: 10 kbps ~ 1000 kbps.
"Data Phase":	CAN FD data phase bit rate. Valid range: 100 kbps ~ 3000 kbps

"SP": CAN/CAN FD arbitration/data phase bit rate sample point. Suggested range: 75.00 ~ 87.50 %

2. In order to use the "User-Defined CAN Baud Rate Settings" paramters, user need to set the pin7 of "10-pin dip switch" to ON position. Otherwise, the CAN "Arbitration Bit Rate" and "Data Phase Bit Rate" settings will follow according to "10-pin dip switch" settings.

Step 5: Setting CAN filter ID

- The "Reject Remote Frame" is used to reject remote standard/extended CAN frame. And the "Standard ID/Extended ID" field are used to set accepted standard/extended CAN IDs.
- 2. All settings in the "CAN Filter Setting" will take effect after pressing "Re-Init CAN" button.

Normal Setting	
CAN Filter Setting	
∼Reject Remote Frame	
🔲 Reject Remote Standard Frame	C tt
Reject Remote Extended Frame	Set
Standard ID Extended ID	
Acceptance CAN ID (HEX)	
From 000 To 7FF Add	
No. From CAN ID(how) To CAN ID(how)	Save File
No From-CAN ID(nex) To-CAN ID(nex)	
	Delete Row
	Clear Table
Get CAN Standard IDs Set CAN Standard IDs	Re-Init CAN