I-7547 Quick Start

v1.1, 2026/07

Packing List

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



I-7547



Screw Driver



Wire-Terminal*32



DIN-Rail Clip

Technical Support

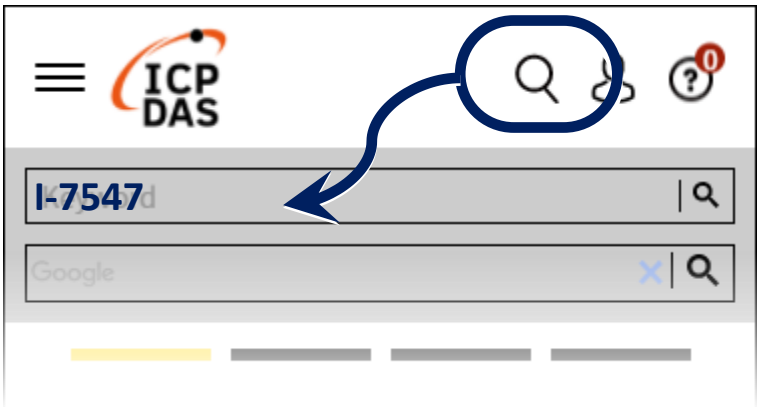
service@icpdas.com

www.icpdas.com

Resources

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

- For Mobile Web



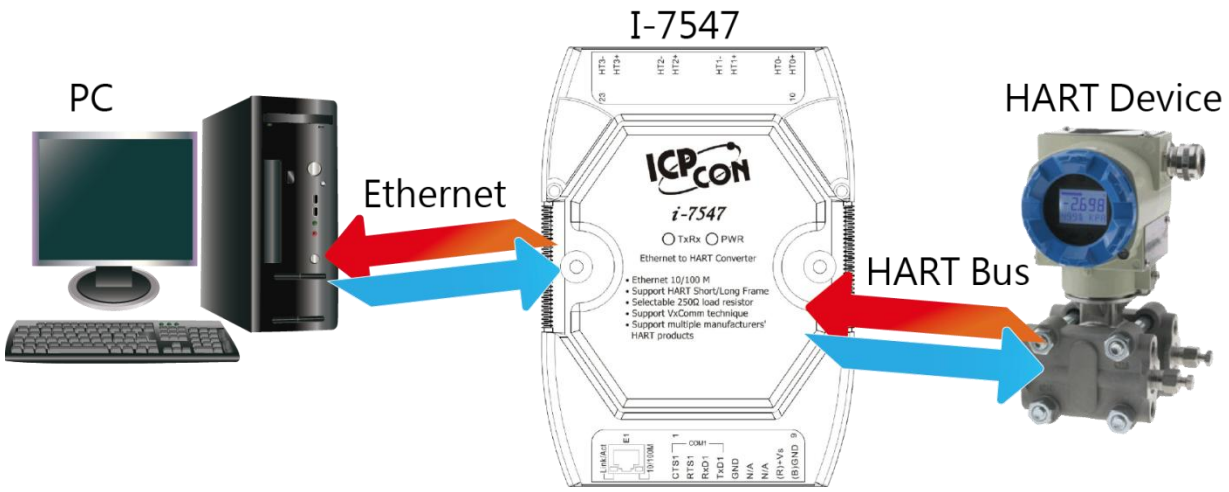
- For Desktop Web



Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

1. Test Structure

Using an I-7547 (as HART master), one HART slave and one PC for example and demonstrate how to use the utility (HC_Tool) for module configuration and HART communication.



2. Hardware Installation

Users may need to make a hardware setting before the application. The detailed illustration is as below :

[Step1: Connect Ethernet port & Set FW Operation Mode]

Connect the Ethernet port of the I-7547 to PC and set the dip-switch on the back of I-7547 to the “Normal” position. Then turn on the I-7547 module power.

[Step2: Check the LED Indication I-7547]

Check the PWR LED of I-7547 if it is on immediately when power on. If yes, it means I-7547 is working in the “Firmware Operation” mode.

Mode / LED Name	Power off	FW Update	FW Operation	Ethernet Data Received	HART Port Data Received
PWR LED	Off	On after 5 sec when reboot	On Immediately when reboot	On	On
TxRx LED	Off	Off	Off	Flash	Flash

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

[Step3: Enable or Disable the Terminator Resistor]

Four jumpers (JP3~JP6) are at the top of I-7547 as Figure 2-1. The jumper can provide HART network with 250Ω load resistor. When the pin 1&2 of the jumper is connected, the resistor will connect to HART network. When the pin 2&3 of the jumper is connected, it will disconnect the resistor from HART network. By default, the pin1&2 of JP3~JP6 are connected.

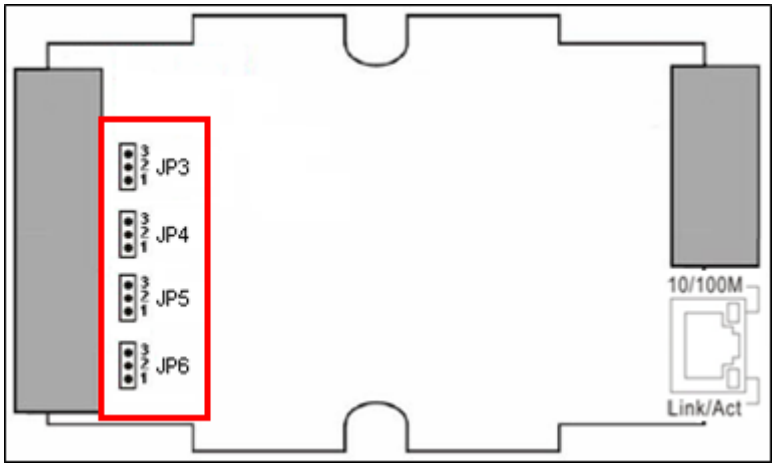


Figure 2-1: Terminator Resistor

[Step4: HART bus connection]

Connect the HART port 0 of the I-7547 to HART Device.

3. Run I-7547 Utility (HC_Tool)

Step1: Turn on the power of I-7547, if the PWR LED of the I-7547 is on immediately, then it means the I-7547 converter is working in the "Firmware Operation" mode.

Step2: Run the "I-7547 Utility", **HC_Tool**, and click the "Settings" item like Figure 3-1 to configure the serial connection and HART command parameters.

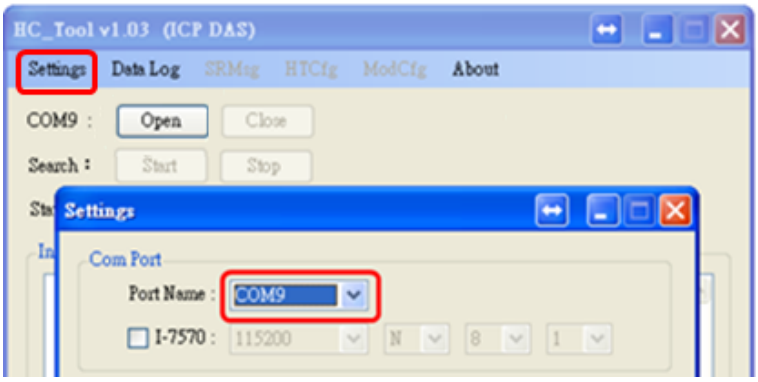


Figure 3-1: "Settings" function of HC_Tool

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

Step3: Set the “Port Name”, “Auto Configure“ and “HT Channel“ parameters like Figure 3-2.

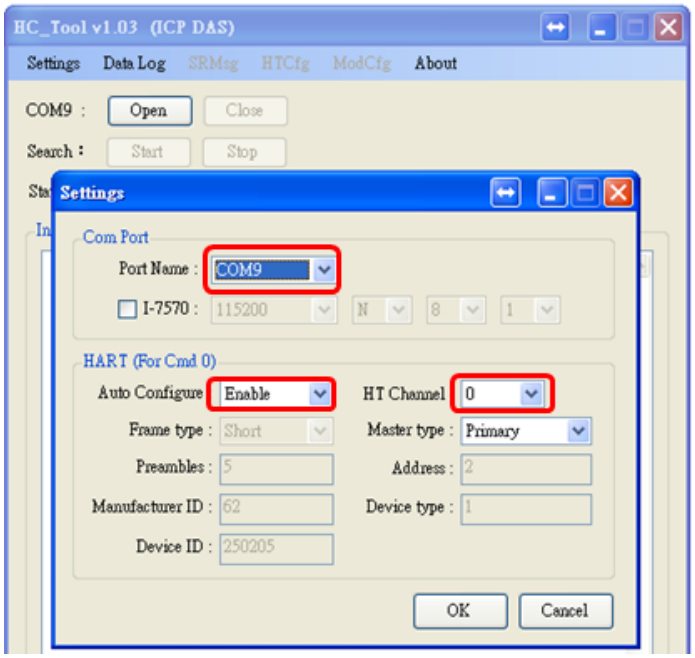


Figure 3-2: Set Com Port and HART Command Parameter

Step4: Click “Open” button to open the com port of PC like Figure 3-3.

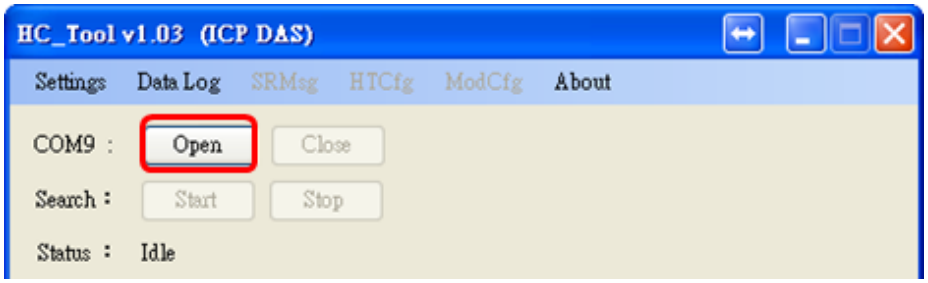


Figure 3-3: Click the “Open” button

Step5: Click “Start” button to search all HART devices and the result will be shown in the ”Information” field like Figure 3-4.

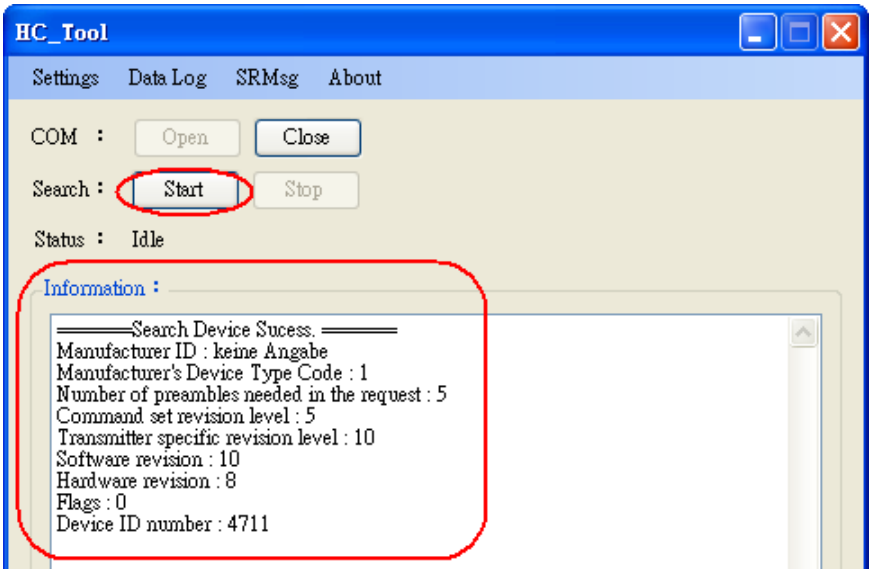


Figure 3-4: HART device Information

Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000