

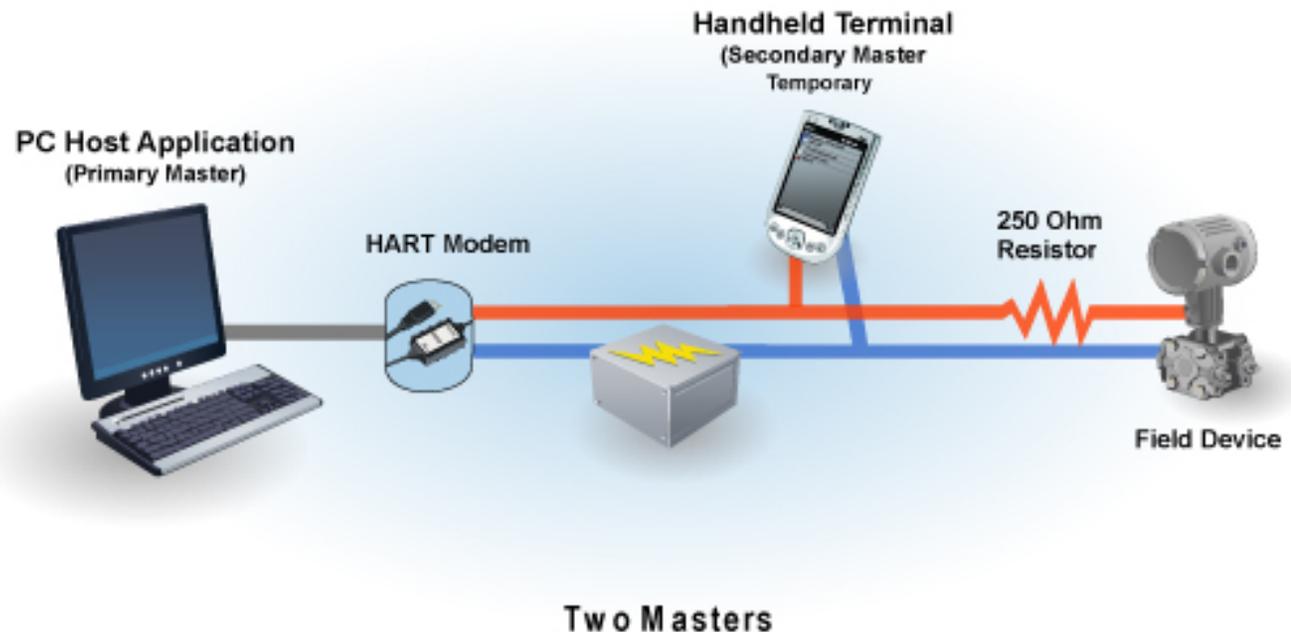


ICP DAS HART Introduction



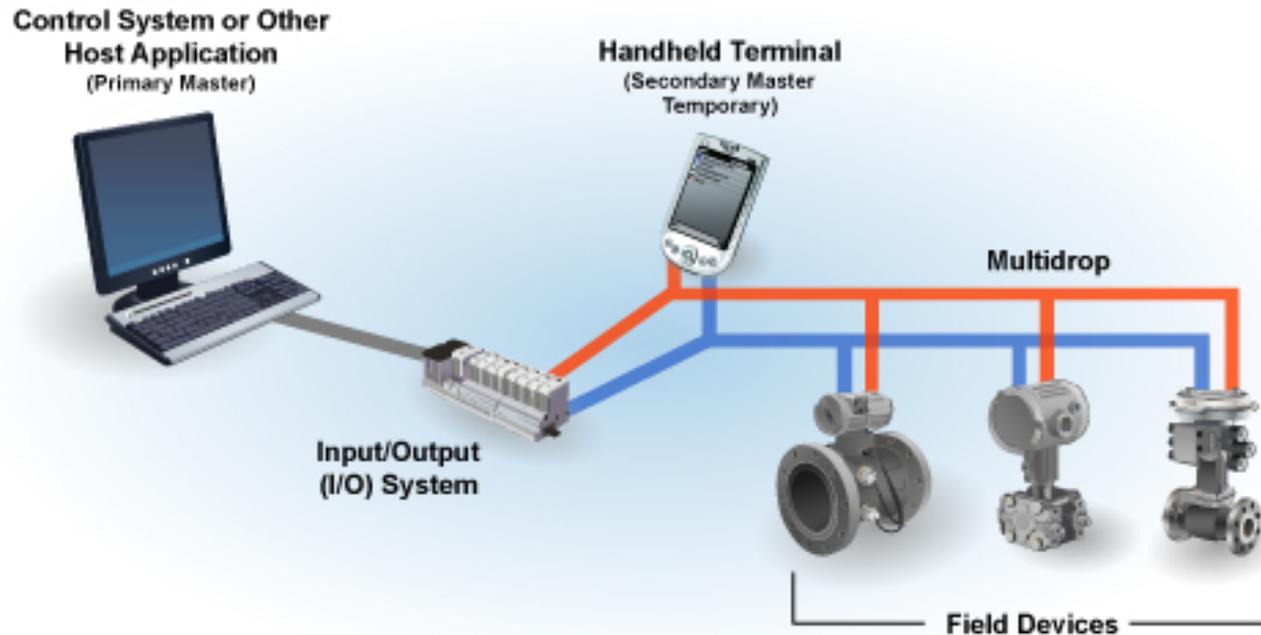
Comm. Structure (1/2)

Peer-to-Peer mode (analog/digital)



Comm. Structure (2/2)

Multi-drop mode (digital)



Note: Instrument power is provided by an interface or an external power source that is not shown.

Two Masters

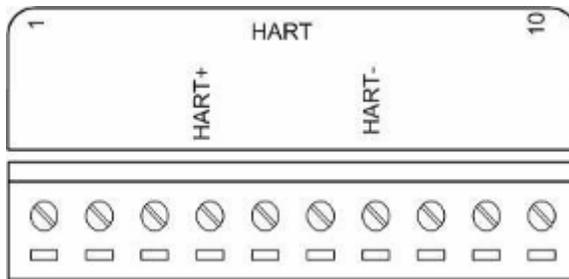


ICP DAS HART Products

Type	Model	Module Function	State
Converter	I-7567	USB to HART	Release
	I-7570	RS-232/422/485 to HART	Release
	I-7547	Ethernet to HART	Soon
Gateway	HART-710	Modbus(RTU/ASCII) to HART	Release
	GW-7557	PROFIBUS DP to HART	Release
	GW-7437	Modbus/TCP to HART	Soon
I/O Module	I-87H17W	HART AI module with 8 ch.	Release
	I-87H24W	HART AO module with 8 ch.	Soon



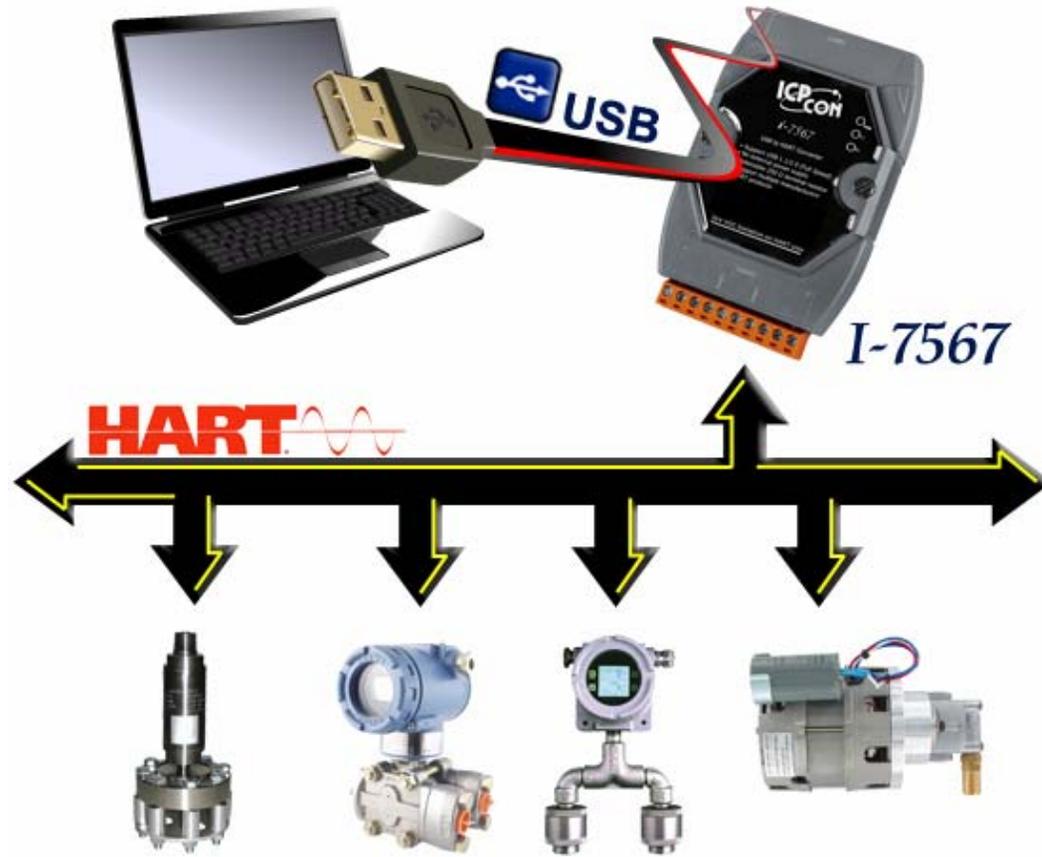
I-7567 (1/3)



Features :

- Support USB1.1 or USB2.0
- No external power supply (by USB)
- Support point-to-point / multi-drop
- Support firmware update via USB
- Selectable 250 Ω load resistor
- Support HART Short/Long frame
- Support HART Burst mode
- Provide PWR / Tx / Rx LED
- Built-in Watchdog

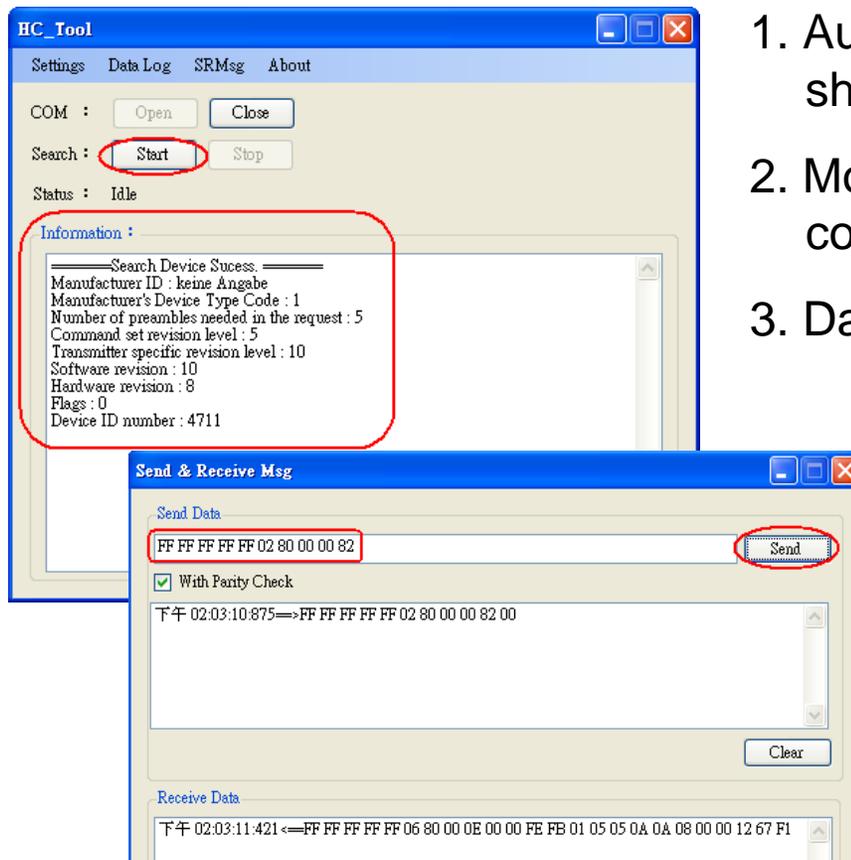
I-7567 (2/3)



Application Structure

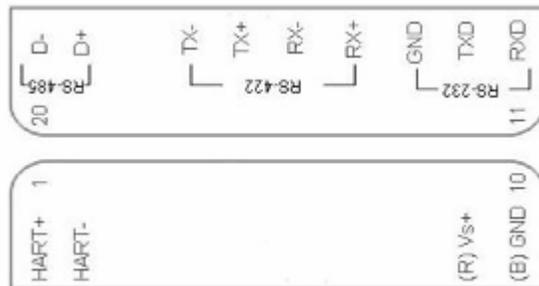
I-7567 (3/3)

HC_Tool:



1. Auto scan all HART devices and show the device information.
2. Module configuration and HART communication easily and quickly.
3. Data logging for HART comm.

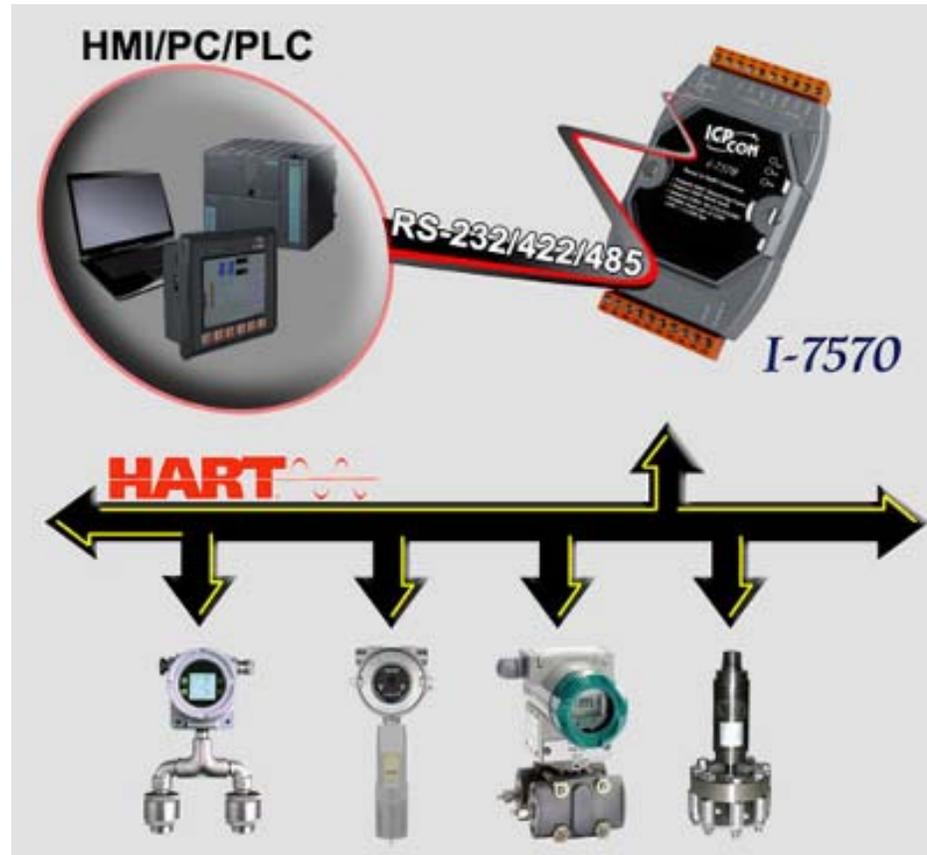
I-7570 (1/3)



Features :

- Provide RS-232/422/485 Interface
- Support point-to-point / multi-drop
- Support firmware update via RS-232
- Selectable 250Ω load resistor
- Support HART Short/Long frame
- Support HART Burst mode
- Provide PWR / Tx / Rx LED
- Built-in Watchdog

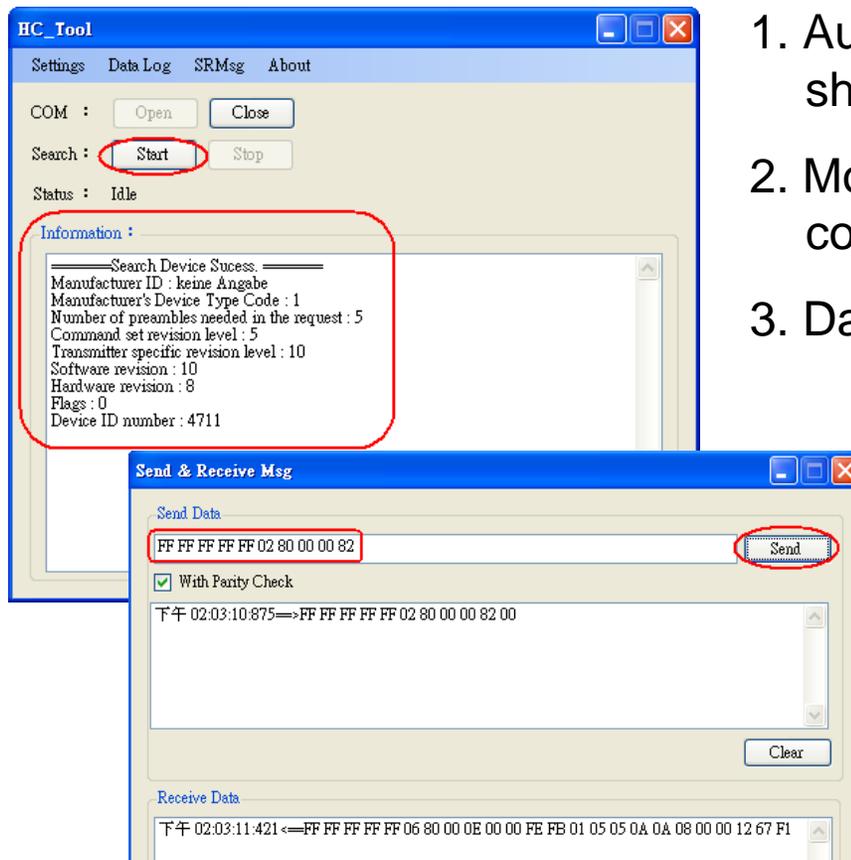
I-7570 (2/3)



Application Structure

I-7570 (3/3)

HC_Tool:



1. Auto scan all HART devices and show the device information.
2. Module configuration and HART communication easily and quickly.
3. Data logging for HART comm.

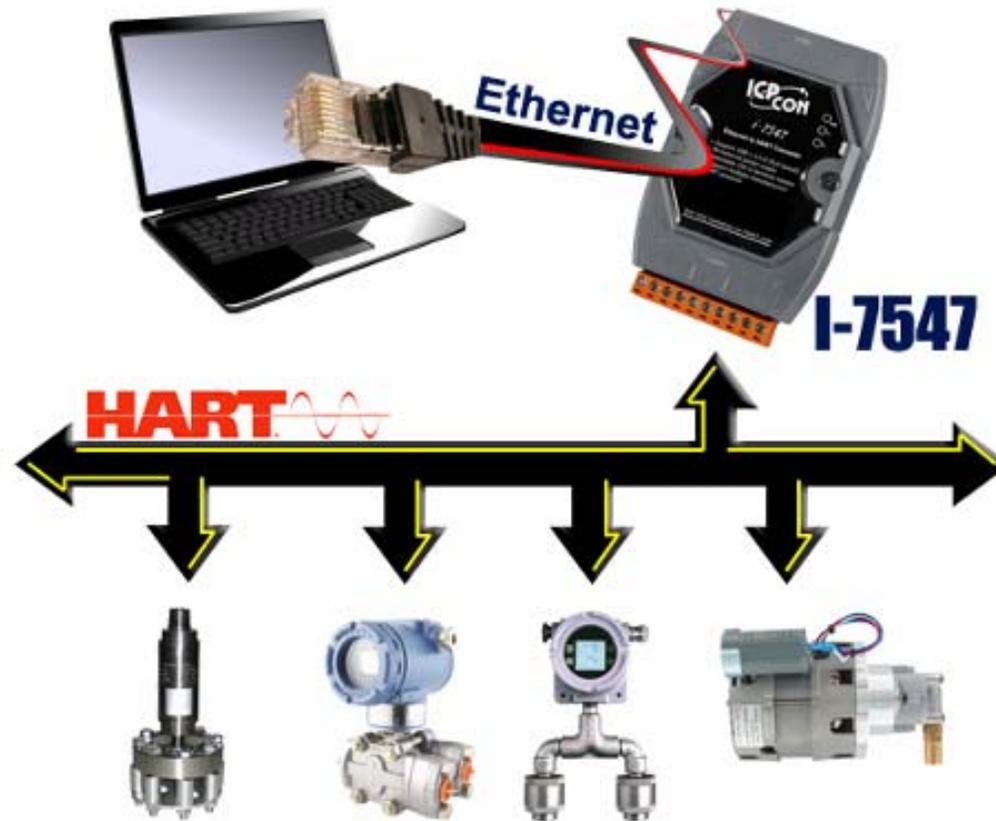
I-7547 (1/3)



Features :

- Support Ethernet Comm. Interface
- Support point-to-point / multi-drop
- Support firmware update via Ethernet
- Selectable 250 Ω load resistor
- Provide four HART channels
- Support HART Short/Long frame
- Support HART Burst mode
- Provide PWR / RUN LED

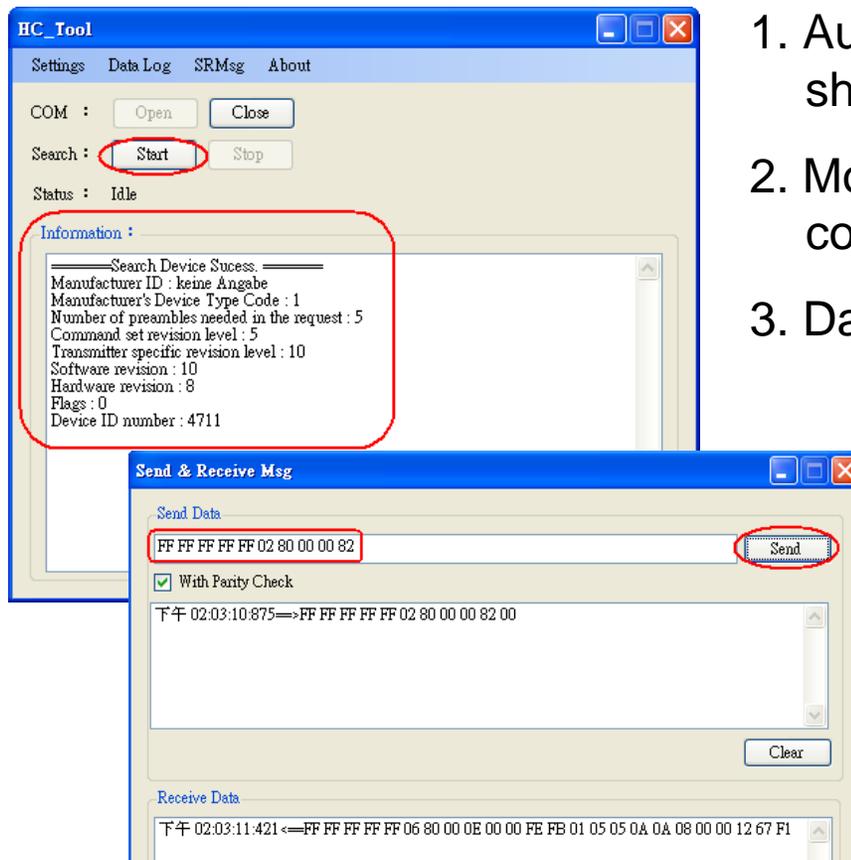
I-7547 (2/3)



Application Structure

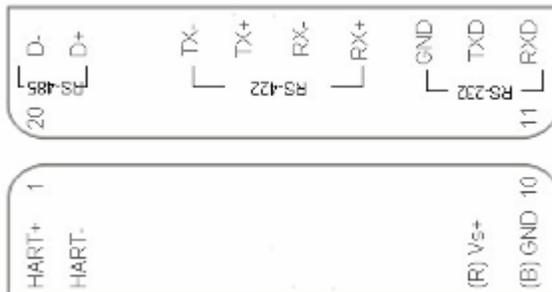
I-7547 (3/3)

HC_Tool:



1. Auto scan all HART devices and show the device information.
2. Module configuration and HART communication easily and quickly.
3. Data logging for HART comm.

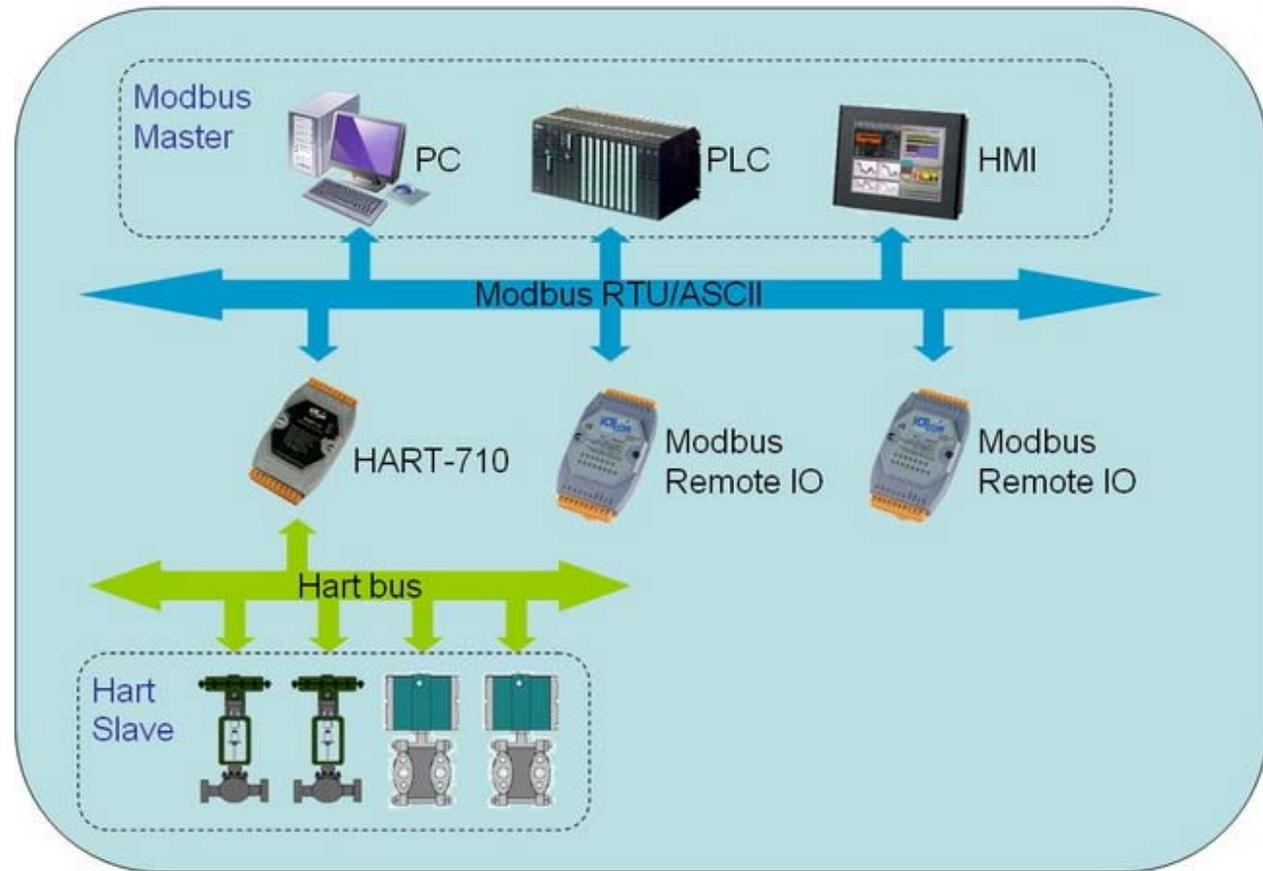
HART-710 (1/3)



Features :

- Support Modbus RTU/ASCII
- Provide RS-232/422/485 Interface
- Support point-to-point / multi-drop
- Support firmware update via RS-232
- Selectable 250 Ω load resistor
- Support HART Short/Long frame
- Support HART Burst mode
- Provide PWR / Tx / Rx LED
- Built-in Watchdog

HART-710 (2/3)



Application Structure

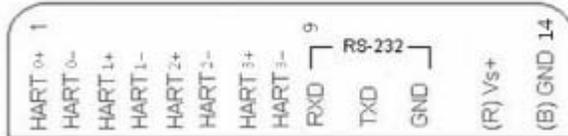
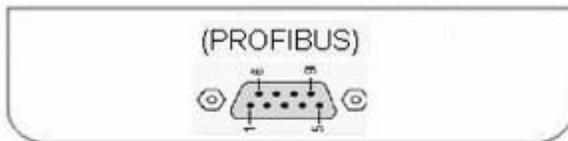
HART-710 (3/3)

Utility 工具軟體 :



1. Auto scan all HART devices and show the device information.
2. Module configuration and HART communication easily and quickly.
3. Modbus Address Mapping Table Configuration.

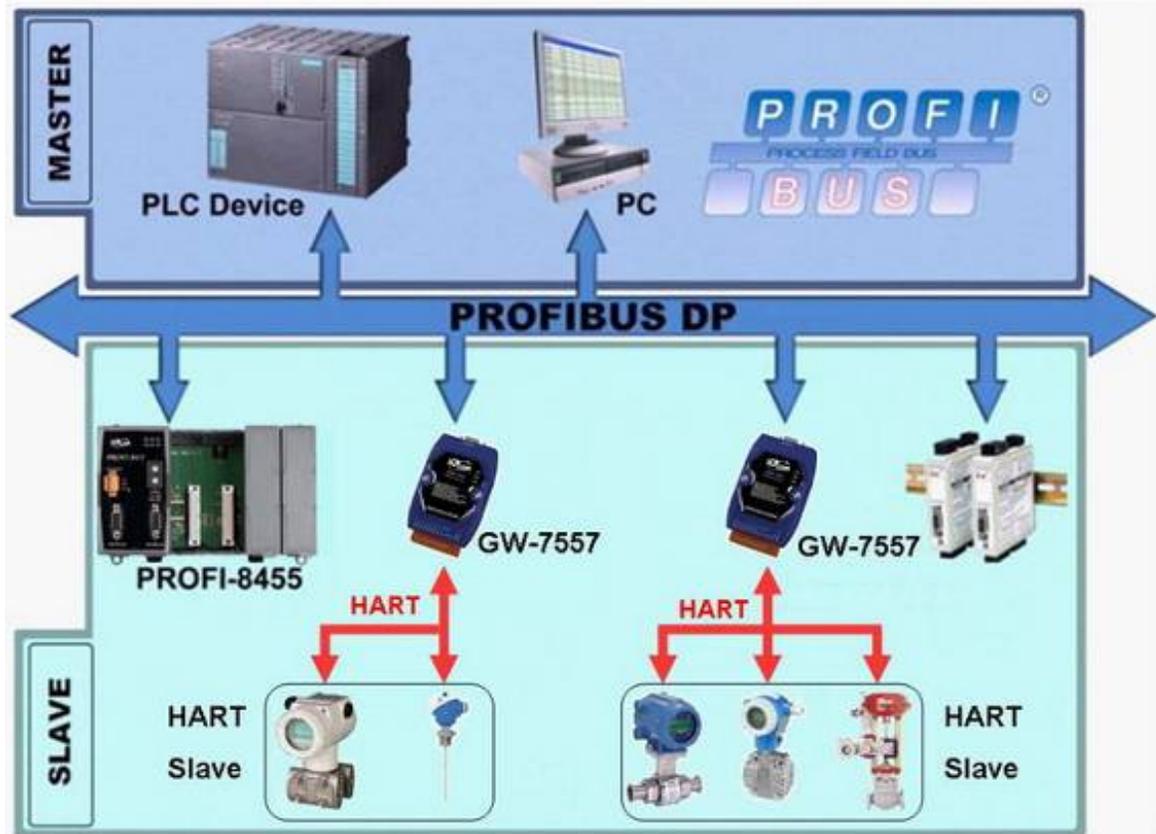
GW-7557 (1/2)



Features :

- Support PROFIBUS DP-V0
- Auto Detect PROFIBUS Baudrate
- Support PROFIBUS Max. Baud 12Mbps
- Max Output / Input Length 240 Bytes
- Provide four HART channels
- Support two HART master
- Support point-to-point / multi-drop
- Support HART Burst mode
- Provide PWR / RUN / ERR LED
- Built-in Watchdog

GW-7557 (2/2)



Application Structure

I-87H17W (1/2)



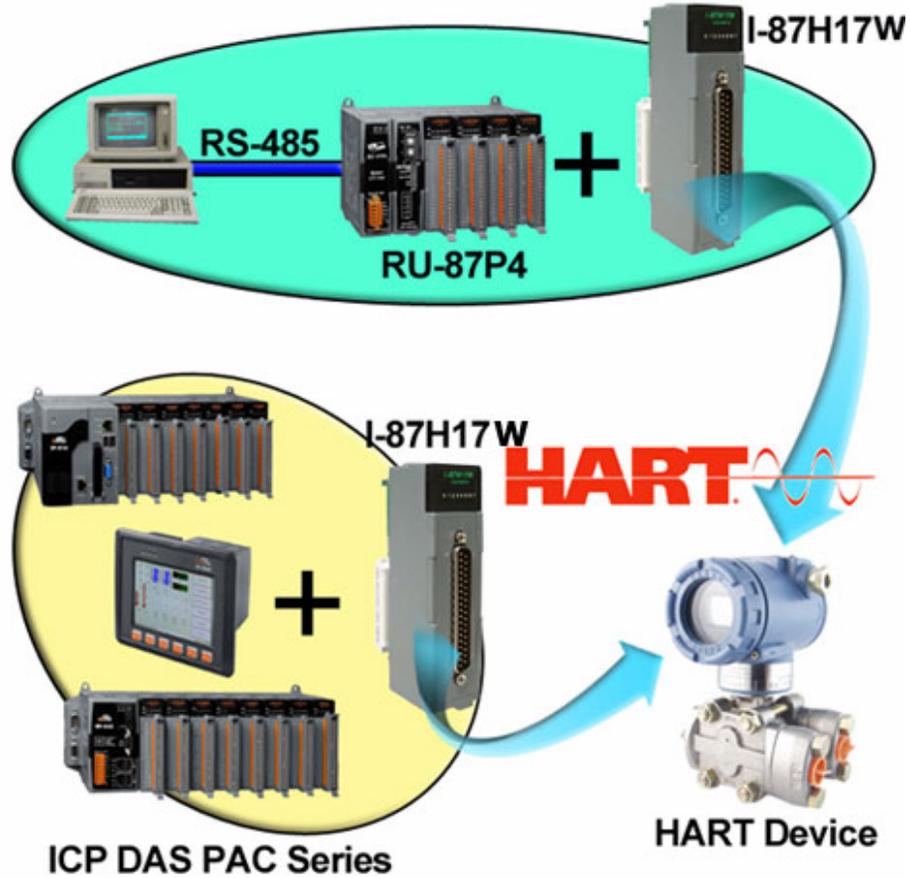
Pin Assignment Name	Terminal No.	Pin Assignment Name
X	19	37 BK2
EXT_PWR	18	36 EXT_GND
VIN7-	17	35 INT_PWR7
VIN7+	16	34 EXT_GND
VIN6-	15	33 INT_PWR6
VIN6+	14	32 EXT_GND
VIN5-	13	31 INT_PWR5
VIN5+	12	30 EXT_GND
VIN4-	11	29 INT_PWR4
VIN4+	10	28 EXT_GND
VIN3-	09	27 INT_PWR3
VIN3+	08	26 EXT_GND
VIN2-	07	25 INT_PWR2
VIN2+	06	24 EXT_GND
VIN1-	05	23 INT_PWR1
VIN1+	04	22 EXT_GND
VIN0-	03	21 INT_PWR0
VIN0+	02	20 EXT_GND
BK1	01	

37-pin male D-Sub Connector

Features :

- Support WinPAC / ViewPAC / XPAC and I-87Kn / RU-87Pn / USB-87Pn / ET-87Pn series.
- Provide 8 HART channels.
- Support current measurement and HART communication.
- Support point-to-point only.
- Support 2 or 4 wire HART device.
- Open wire detection for every ch.
- Built-in Dual Watchdog
- Support DCON protocol and utility
- Provide PWR and Ch. LED

I-87H17W (2/2)



Application Structure

I-87H24W (1/2)



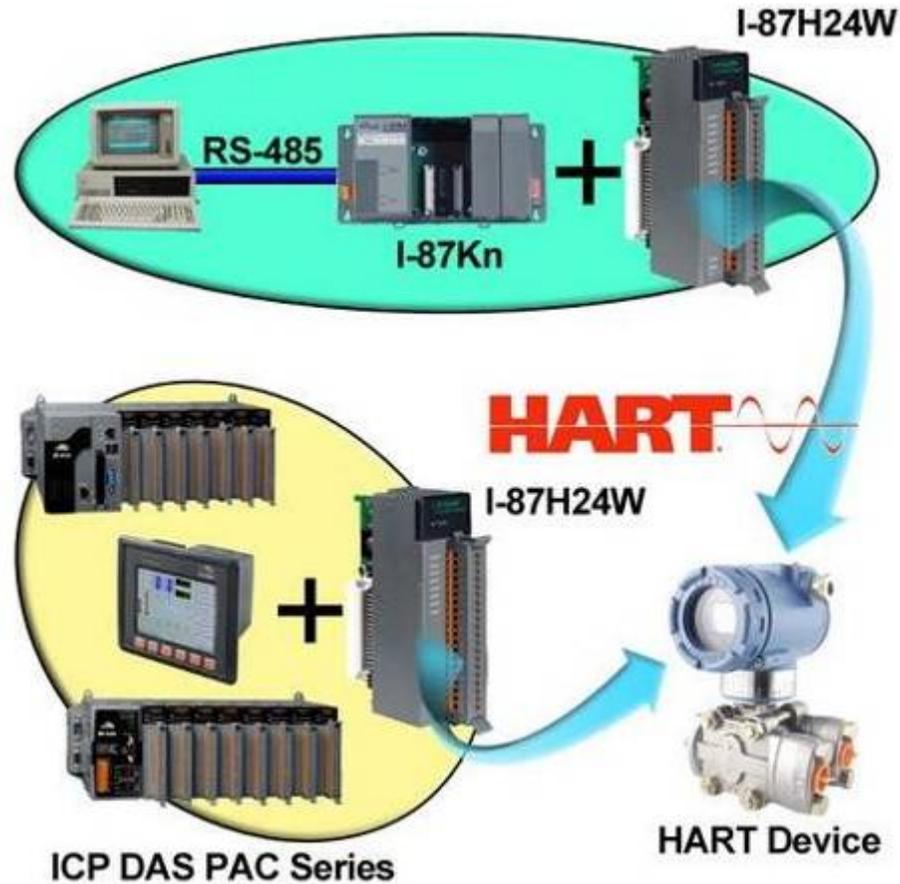
Terminal No.	Pin Assignment
01	iout0+
02	iout0-
03	iout1+
04	iout1-
05	iout2+
06	iout2-
07	iout3+
08	iout3-
09	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	24V+
20	GND

Features :

- Support WinPAC / ViewPAC / XPAC and I-87Kn / RU-87Pn / USB-87Pn / ET-87Pn series.
- Provide 4 HART channels.
- Support current measurement and HART communication.
- Support point-to-point only.
- Support 2 or 4 wire HART device.
- Open wire detection for every ch.
- Built-in Dual Watchdog
- Support DCON protocol and utility
- Provide PWR and Ch. LED



I-87H24W (2/2)



Application Structure





HART Resource

1. ICP DAS HART Products Website :

http://www.icpdas.com/products/Remote_IO/can_bus/hart_series.htm

2. HART Official Website:

<http://www.hartcomm.org/index.html>

