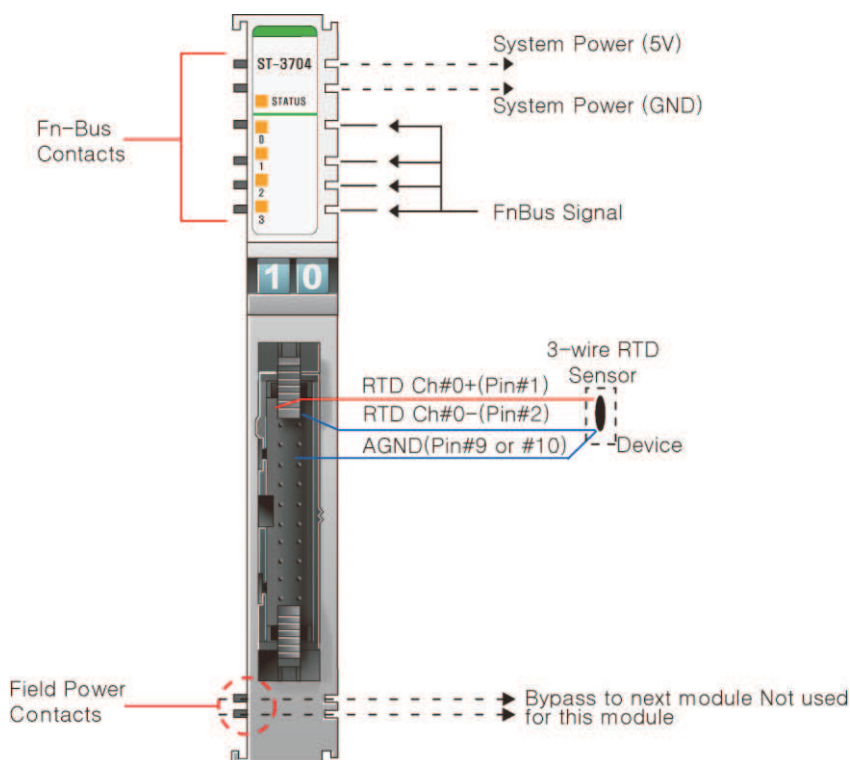


4 Channels RTD / Resistance Input Terminal

- ST-3704는 4 Channels RTD 모듈이며, Pt resistance sensor의 직접 연결하여 사용합니다.
- 이 module에는 3개의 상태 LED가 있으며, 하나는 network 상태, 나머지는 field devices 상태를 위한 것입니다.
- 접속방식은 2선식 혹은 3선식 sensor 연결이 가능하지만 권장사양은 3선식입니다.

Items	RTD Input	Pin No	Description
Input Specification		1	RTD Ch#0+
Number of Inputs	4 Channels	2	RTD Ch#0-
Indicators	1 Green/Red Status, 4 Green/Red Input State	3	RTD Ch#1+
Sensor Types	RTD Input - PT 100, PT200, PT500, PT1000, PT50 - JPT100, JPT200, JPT500, JPT1000, JPT50 - NI100, NI200, NI500, NI000 - NI120, NI1000LG Resistance Input - 100mOhm/bit, 10mOhm/bit, 20mOhm/bit, 50mOhm/bit	4	RTD Ch#1-
Excitation Current	About 1mA	5	RTD Ch#2+
Conversion Method	3-Wire or 2-Wire	6	RTD Ch#2-
Conversion Time	30msc/1Channel when Normal Conversion	7	RTD Ch#3+
Data Format	16bit signed Integer(2's compliment)	8	RTD Ch#3-
Resolution of Date	±0.1°C/°F, 10mOhm	9	AGND
Module Accuracy	±0.1% Full Scale @25°C ±0.3% Full Scale @0°C, 60°C, TBD	10	AGND
Calibration	Not Required	11	----
Diagnostic	Sensor Open or Range Over, then Conversion Date=0x8000(-32768)	12	----
Common Type	4 Commons/Module	13	----
General Specification		14	----
Power Dissipation	Max. 100mA @5.0Vdc TBD	15	----
Isolation	I/O to Control Logic : photocoupler Isolation	16	----
Field power	Not used, Field Power by pass to next expansion module	17	----
Wiring	Connector Type, up to AWG22 Module Connector : HIF3BA-20PA-2.54DSA	18	----
Weight	70g	19	AGND
Module Size	12mm x 99mm x 70mm	20	AGND
Environment Condition	Refer to Environment Specification		

Wire Diagram



Mapping Data into the image Table

Input Module Data

Analog Input Ch0
Analog Input Ch1



Input Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte 0	Analog Input Ch0 Low byte							
Byte 1	Analog Input Ch0 High byte							
Byte 2	Analog Input Ch1 Low byte							
Byte 3	Analog Input Ch1 High byte							
Byte 4	Analog Input Ch2 Low byte							
Byte 5	Analog Input Ch2 High byte							
Byte 6	Analog Input Ch3 Low byte							
Byte 7	Analog Input Ch3 High byte							

Expansion Module Status LED

State	LED is	To indicate
Not Powered	Off	Not powered
No Initialization		Not Initialized yet.
Module Connection	Green	Normal Operation, IO Exchange
Module Ready	Flashing Green	Module Ready
Module Fault	Flashing Red	Module failed in Communication
Module Fault	Red	Module Fault

Channel Status LED

State	LED is	To indicate
Normal Operation	OFF	Input Sensor Open or Input Range Over
Normal Operation	Green	Sensor Connected and Input Range Valid

Type B

℃	0℃	300℃	900℃	1800℃
Data(Hex)	H0000	H0BB8	H2328	H4650

