

# 4 Channels Voltage Input Terminal 0V~5V, 12bit



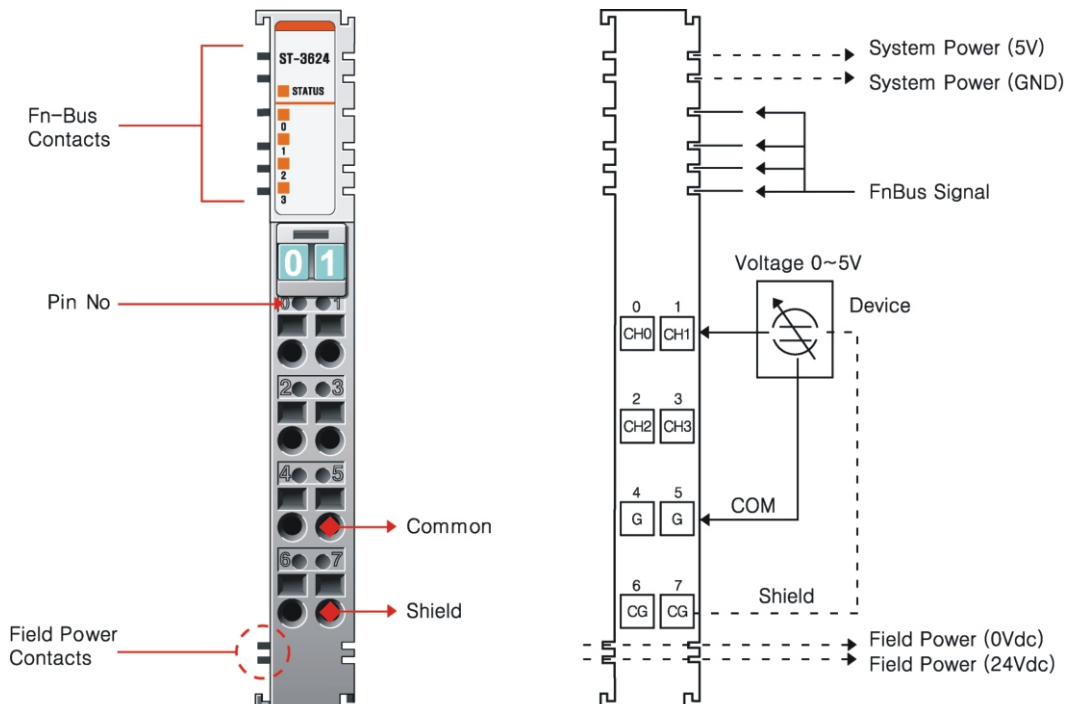
- ST-3624는 4 Channels analog voltage type input이며, 0~5V의 값을 signal로 받습니다.
- Input signal은 전기적으로 절연되며 12bits의 분해능력을 가집니다.
- 이 module에는 5개의 상태 LED가 있으며, 하나는 network 상태, 나머지는 field devices 상태를 위한 것입니다.
- Input channels differential inputs입니다. Shield는 DIN rail에 직접 연결됩니다.

## Items Analog Voltage Input

Input Specification	
Number of Inputs	4 Channels Single Ended, Non-isolated Between Channels
Indicators	4 Green/Red state, 1 Green/Red FnBUS state
Resolution in Ranges	12Bits : 1.22mV/Bit (ST-3624) 14Bits : 0.3mV/Bit (ST-3644)
Input current Range	0Vdc to 5Vdc
Data Format	16bit Integer (2's compliment)
Module Error	±0.1% Full Scale @25°C ±0.3% Full Scale @0°C, 60°C
Input Impedance	500Kohm
Conversion Time	4msec / All channel
Calibration	Not Required
Diagnostic	No
Common Type	4 Channels / 2COM
General Specification	
Power Supply	From System Power DC/DC
Power Dissipation	Max. 170mA @ 5.0Vdc
Isolation	I/O to Logic : Photocoupler isolation Field power : Not Connected
Wiring	I/O Cable Max. 2.0mm <sup>2</sup>
Weight	70g
Module Size	12mm x 99mm x 70mm
Environment Condition	Refer to " 2. Environment Specification "

Pin No	Description	Pin No	Description
0	Input Channel 0	1	Input Channel 1
2	Input Channel 2	3	Input Channel 3
4	Input Channel Common(0V)	5	Input Channel Common(0V)
6	Chassis Ground / Shield	7	Chassis Ground / Shield

## Wire Diagram



**Mapping Data into the image Table**

**Input Module Data**

Analog Input Ch0
Analog Input Ch1
Analog Input Ch2
Analog Input Ch3



**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	Device has no expansion Module or may not be powered
No Initialized		The Parameter is not initialized yet.
Fn-Bus Connection	Green	FnBus normal Operation
Fn-Bus Ready	Flashing Green	FnBus Ready
Fn-Bus Fault	Flashing Red	FnBus Time Out FnBus Failed Communication
Device Fault	Red	Device Fault

**Channel Status LED**

State	LED is	To indicate
Nominal	Green	Normal Operation
Channel Fault	Red	Channel Open

**ST-3624**

Voltage	0V	2V	4V	5V
Data(Hex)	H0000	H0666	H0CCC	H0FFF

