

# CANopen - Network Adapter



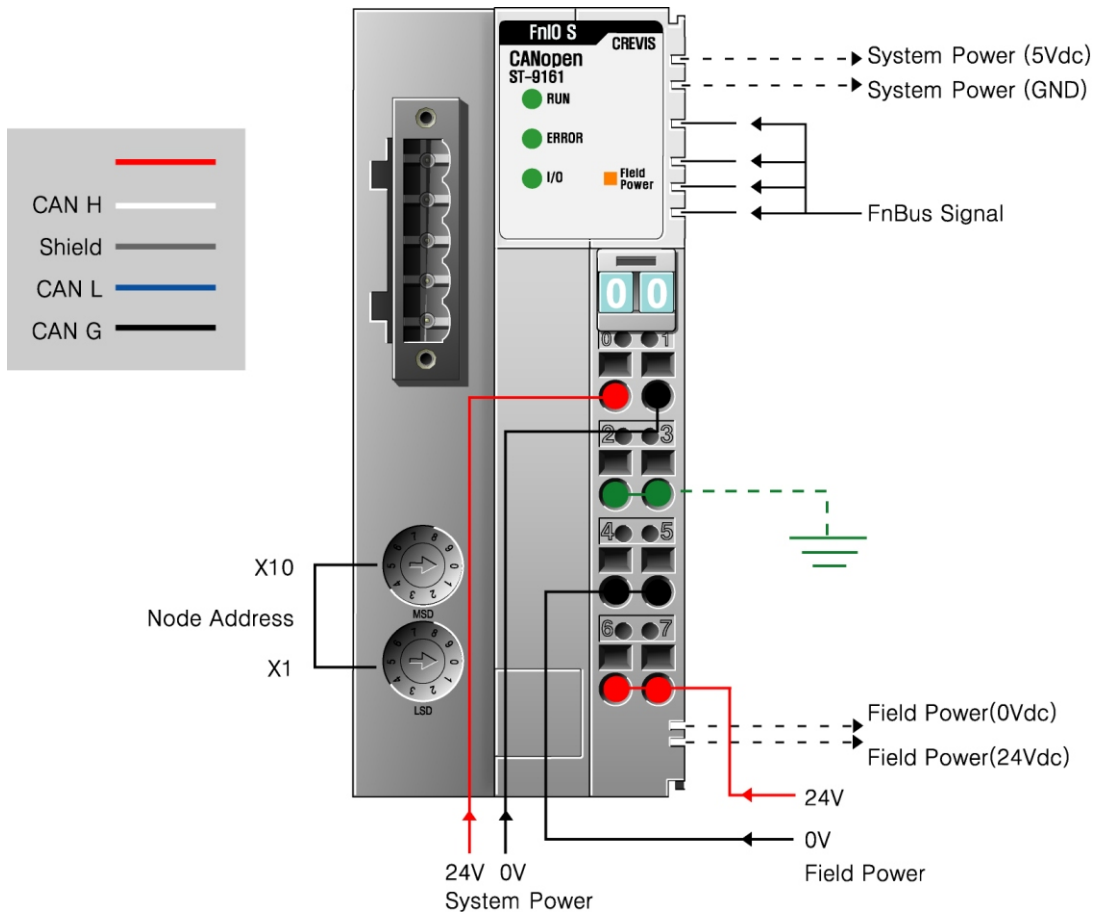
- NA-9161 is CANopen Network Adapter and connected with CANopen via 5 Pin Open Connector.
- NA-9161 works as a Slave in the Master/Slave circumstance .
- The Node Size is able to extend upto maximum 99 units.
- Each NA-9161 can receive and transmit maximum 8 PDOs.
- The NA-9161 has the indicator for the diagnostic functions (RUN, Error, expansion module status, field power status ) .
- It supports the communication speed from 10Kbps to 1Mbps.
- The Network Adapter and the expansion module can be represented as a parameter on PC by usnig the configuration tool software provided from Master.

FnIO

Network Adapter / NA-9161

Items	CANopen Adapter Module
<b>Communication Interface Specifications</b>	
Number of Network Modules	Max. 99 Slot
Expansion I/O Module	Max. 32 Slot
Peripheral signal	Input 64 bytes / Output 64 bytes
Indicators	1 green CAN-RUN Status Indicator
	1 red CAN-ERR Status Indicator
	1 green/red FnBus Status Indicator
	1 green Field Power supply Status Indicator
	1 green Field Power supply Status Indicator
Communication Rate	10 KByte ...1 MByte
Max. bus length	Depending on Baud rate
Number of PDOs available	8 Transmit PDOs / 8 Receive PDOs
Number of SDOs available	1 Standard SDOs
<b>General Specification</b>	
System Power	Supply voltage : 24Vdc nominal
	Voltage range : 11~28.8Vdc
	Power Dissipation 100mA Typical @ 24Vdc
Current for I/O Module	1.5A @ Max. 5Vdc
Isolation	Network to Logic : Isolation
	Logic to Field power : Isolation
	Logic to System power : Non-isolation
Field Power	Supply voltage : 24Vdc nominal
	Voltage range : 11~28.8Vdc
Current in Jumper Contacts	DC 10A Max. capacity
Weight	155g
Module Size	42mm X 99mm X 70mm
Environment Condition	Refer to " 2. Environment Specification "

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## Status Indicator LED

### RUN : CAN-RUN LED

State	LED is	To indicate
Not Powered Not On-line	Off	The Device is not on-line or may not be powered Not completed the Dup-MAC_ID test yet
On-line, STOPED	Single Flash Green	The Device is in STOPED state
On-line, PRE-OPERATIONAL	Blinking Green	The Device is in the PRE-OPERATIONAL state
On-line, OPERATIONAL	Green	The Device is in the OPERATIONAL state

## ERR : CAN-ERR LED

State	State	To indicate
Not Powered	Off	Device is in mode baud rate search or may not be powered.
Not On-line		
Warning limit reached	Single Flash Red	At least one of the error counters of the CAN controller has reached or exceeded the warning level(too many error frames).
On-line		
Error Control Event	Double Flash Red	The guarding monitor has asserted, guarding telegrams are no longer being received. The adapter is pre-operational state.
On-line		
Sync Error On-line	Triple Flash Red	A sync error has occurred. - The adapter is pre-operational(PDOs switch off).
Bus Off	Red	Device is in the cyclic data exchange mode with the parameterization master.

## I/O : Expansion Module Status LED

State	State	To indicate
Not Powered	Off	Device has no expansion module or may not be powered
No Expansion Module		
Fn-Bus On-line, Do not Exchanging I/O	Flash Green	Fn-Bus is on-line but does not exchanging I/O data - Passed the expansion module configuration.
Fn-Bus Connection, Run Exchanging IO	Green	Expansion Slot is connected and run exchanging I/O data
FnBus connection fault during exchanging IO	Red	One or more expansion module occurred in fault state. - FnBus communication failure.
Expansion Configuration Failed	Flash Red	Failed to initialize expansion module - detected invalid expansion module ID. - overflowed Input/Output Size - initial protocol failure

## Field Power : Field Power LED

State	LED is	To indicate
Not Supplied Field Power	Off	Not supplied 24Vdc field power
Supplied Field Power	Green	Supplied 24Vdc field power

## Mapping Data into the Image Table

