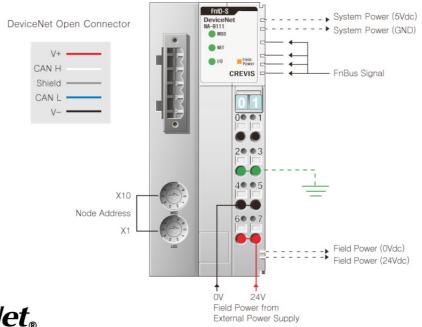
## DeviceNet Network Adapter, 32 bytes input and 32 bytes output (NA-9111) 252 bytes input and 252 bytes output (NA-9112)





The Wiring diagram of NA-9111 and NA-9112 are the same

CONFORMANCE TESTED		The Wiring diagram of NA-9111 and NA-9112 are the same.	
Item	NA-9111	NA-9112	
Interface Specifications			
Adapter Type	Group 2 Only Slave		
Max. Expansion Module	32 Slots		
Max. Input Size	NA-9111 : 32 bytes, NA-9	NA-9111 : 32 bytes, NA-9112 : 252 bytes	
Max. Output Size	NA-9111 : 32 bytes, NA-9112 : 252 bytes		
Max. Length Bus Line	Max.100m@500Kbps, Max.250m@25	0Kbps, Max.500m@125Kbps	
Max. Nodes	64 nodes		
Communication Speed	125Kbps, 250Kbps, 500Kbps, auto baud rate supported		
Network Portocol	Poll, Bit-Strobe, Cyclic, COS		
Interface Connector	5pin Open male o	connector	
Node MAC ID Setup	2 Rotary Swit	ches	
Module Location	Starter module - left side	of FnIO system	
Field Power Detection	About 11Vo	dc	
General Specification			
System Power	Supply Voltage : 24Vdc nominal		
(from DeviceNet Cable)	Voltage Range : 11	1~28.8Vdc	
	Protection: Output Current Limit (Min. 1	1.5A) Reverse Polarity Protection	
Power Dissipation	40mA Typical @	24Vdc	
Current for I/O Module	1.2A @ Max.	5Vdc	
Isolation	DeviceNet to internal logi	ic : Non-isolation	
	Internal logic to I/O dri	iver : Isolation	
Field Power	Supply Voltage: 24\	/dc nominal	
	Voltage Range: 11	L~28.8Vdc	
Max. Current Field Power	DC 10A Ma	ax	
Weight	155g		
Module Size	42mm x 99mm x 70mm		
Environment Condition	Refer to " Environment Specification"(page: 1-191)		

# **Network Adapter**

## Status Indicator LED

## MOD: Module Status LED

Status	LED is	Description
No Power	Off	No power is supplied to the unit
Device Operational	Green	The unit is operating in normal condition
Device in Standby	Flashing Green	The EEPROM parameter is not initialized yet
		Serial Number is zero value (0x0000000)
Minor Fault	Flashing Red	The unit has occurred recoverable fault in self-testing
		- EEPROM checksum fault
Unrecoverable Fault	Red	The unit has occurred unrecoverable fault in self-testing
		- Firmware fault

## **NET: Network Status LED**

Status	LED is	To indicate
Not Power	Off	Device is not on-line or may not be powered
		- Not completed the Dup-MAC_ID test yet
On-line, Not connected	Flashing Green	Device in on-line but has no connections in the established state
		- Passed the Dup-MAC_ID test
		- Not allocated to a master
On-line, Connected	Green	- Device is on-line and allocated to a master
Connection Time-out	Flashing Red	- One or more I/O connections are in the time-out state
Critical Communication Failure	Red	- Failed communication
		- Duplicate MAC ID
		- Bus-off

## I/O: Expansion Module Status LED

Status	LED is	To indicate
Not Powered	Off	Device has no expansion module or may not be powered
Not Expansion Module		
Fn-Bus On-line,	Flashing Green	Fn-Bus is Normal but does not exchanging I/O data
Do not Exchanging I/O		(Passed the expansion module configuration)
Fn-Bus Connection,	Green	Exchanging I/O data
Run Exchanging I/O		
Fn-Bus Connection Fault during	Red	One or more expansion module occurred in fault state
exchanging I/O		- Changed expansion module configuration
		- Fn-Bus communication failure
Expansion Configuration Failed	Flashing Red	Failed to initialize expansion module
		- Detected invalid expansion module ID
		- Overflowed Input/Output Size
		- Too many expansion module
		- Initial protocol failure
		- Mismatch vendor code between adapter and expansion module

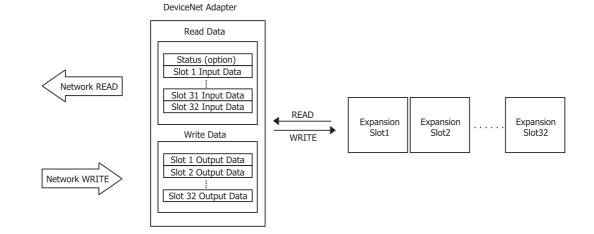
## Field Power: Field Power Status LED

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

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## Mapping Data into the Image Table



## Description of Status byte

Bit Description	Decimal Bit	Explanation
Explanation	00-03	0 : Exchange I/O data(normal operation)
		1 : Stop Exchanging I/O(ready to exchange I/O)
		2 : Fn-Bus Communication Fault
		3 : Slot Configuration Fault
		4 : No Expansion Slot
Reserved	04-06	Reserved
Field Power Status	07	0 : 24Vdc Field Power On
		1: 24Vdc Field Power Off

#### DeviceNet MAC ID Setup

Each DeviceNet Adapter must have a unique MAC ID (from 0 to 63) so that it can be addressed independently from other nodes. If value range of 2 rotary switches is  $64 \sim 99$ , the MAC ID can be set by from network (software).

