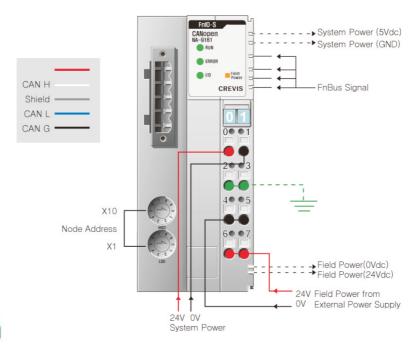
CANopen Network Adapter, 64 bytes input and 64 bytes output





Item	NA-9161			
Interface Specifications				
Number of Network modules	Max. 99 slot			
Expansion I/O Module	Max. 32 slot			
Peripheral Signals	Input 64 bytes / Output 64 bytes			
Indicators	1 Green : CAN-RUN Status Indicator			
	1 Red : CAN-ERR Status Indicator			
	1 Green / Red : Fn-Bus Status Indicator			
	1 Green : Field Power Supply Status Indicator			
Communication Rate	10Kbps ~ 1Mbps			
Max. bus length	Depending on Baud rate			
Number of PDOs available	8 Transmit PDOs / 8 Receive PDOs			
Number of SDOs available	1 Standard SDOs			
General Specification				
System Power	Supply voltage: 24Vdc nominal			
	Voltage range: 11~28.8Vdc			
Power dissipation	Nominal 24Vdc@ 100mA			
Current for I/O Module	Max. 5Vdc@ 1.5A			
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 maximum capacity			
Weight	155g			
Module Size	42mm x 99mm x 70mm			
Environment Condition	Refer to " Environment Specification"(page : 1-191)			

Status Indicator LED

RUN: CAN-RUN LED

State	LED is:	To indicate :			
No Powered	Off	The Device is not on-line or may not be powered			
Not On-line		- 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

Status	LED is	To indicate
Not Powered	Off	The Device is in working condition
Not On-line		
Warning limit reached	Single Flash Red	At least one of the error counters of the CAN controller has
On-line		reached or exceeded the warning level (too many error frames).
Error Control Event	Double Flash Red	The guarding monitor has asserted, guarding telegrams are no
On-line		longer being received. The adapter is pre-operational state.
Sync Error	Triple Flash Red	A sync error has occurred.
On-line		- The adapter is pre-operational (PDOs switch off).
Bus Off	Red	The CAN controller is bus off

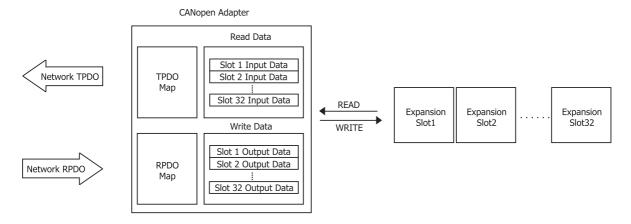
Field Power: Field Power Status LED

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

I/O: Expansion Module Status LED

Status	LED is	To indicate			
Not Powered	Off	Device has no expansion module or may not by powered			
No Expansion Module					
Fn-Bus On-line,	Flash 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	Expansion I/O data			
Run Exchanging I/O					
Fn-Bus Connection Fault	Red	One or more expansion module occurred in fault state.			
during Exchanging I/O		- Changed expansion module configuration			
		- Fn-Bus communication failure.			
Expansion Configuration Failed	Flash Red	Failed to initialize expansion module			
		- Detected invalid expansion module ID.			
		- Overflowerd Input / Output Size			
		- Too many expansion module			
		- Initial protocol failure			
		- Mismatch vendor code between adapter and expansion module			

Mapping Data into the Image Table



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Configuration of the Fieldbus Node

Network Address and Baud rate

Before starting Adapter operation the node number (node ID) and the Network adapter's baud rate must be set. These settings are made by means of 2 rotary swiches on the Adapter.

Node ID

The coupler's node ID is set with Rotary switches. The node ID can be set in the range from 1 to 99 (the ID is not allowed).

Baud rate setting procedure

- Both switches below must be '0' for the baud rate set-up, after power off the NA-9161
 After the set-up for select S/W about the baud rate ranges like the table below, power on the NA-9161
 The acceptance S/W should be set from 0 to 1 in order to retain the new baud rate in the NA-9161
 The baud rate setting procedure is completed
 User can set up the node ID.



Acceptance S/W

Select S/W

The select S/W can be set in the range from 0 to 8 The Acceptance S/W can be set in the range from 0 to 1

	0	1	2	3	4	5	6	7	8	9
Select S/W	0	1	2	3	4	5	6	7	8	9
Acceptance S/W	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'	`0'_>'1'
Baud rate	1MB	800KB	500KB	250KB	125KB	100KB	50KB	20KB	10KB	Auto baud rate