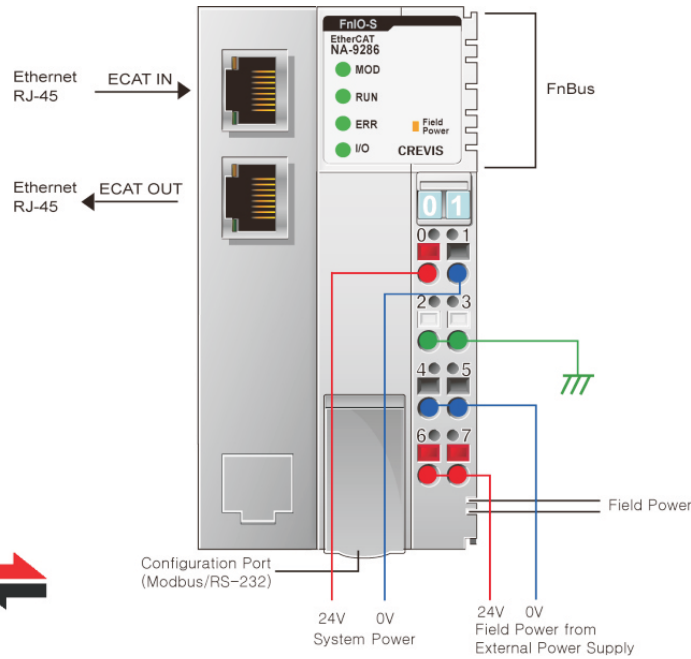


EtherCAT Network Adapter, 252 bytes input and 252 bytes output



Item		NA-9286											
Interface Specification													
Adapter Type	EtherCAT Slave Node												
Max. Expansion Module	63 Slots												
Max. Input Size	252 Bytes (2016 Points)												
Max. Output Size	252 Bytes (2016 Points)												
Data Baud Rate	100 Mbps												
Max. Nodes	65,535												
Interface Connector	RJ-45 Socket 2ports (ECAT IN→IN, ECAT OUT→OUT)												
Mac Address / IP Address	No need												
Indicators	5 LEDs (Front Window) - 1 Green/Red, Module Status (MOD) - 1 Green, Current Running Status (RUN) - 1 Green, Error Status (ERR) - 1 Green/Red Expansion I/O Module Status (I/O) - 1 Green, Field Power Status 2 LEDs (each RJ-45 Connector) - 1 Green Link, Active - 1 Yellow Not used												
Module Location	Starter module – left side of FnIO system												
Field Power Detection	About 11Vdc												
Configuration Tool	I/O Guide Pro												
Configuration Port	<table border="1"> <tr> <td rowspan="5">Modbus/RS 232</td> <td>Node</td> <td>1 (fixed)</td> </tr> <tr> <td>Baud Rate</td> <td>115200 (fixed)</td> </tr> <tr> <td>Data Bit</td> <td>8 (fixed)</td> </tr> <tr> <td>Parity Bit</td> <td>No parity (fixed)</td> </tr> <tr> <td>Stop Bit</td> <td>1 (fixed)</td> </tr> </table>		Modbus/RS 232	Node	1 (fixed)	Baud Rate	115200 (fixed)	Data Bit	8 (fixed)	Parity Bit	No parity (fixed)	Stop Bit	1 (fixed)
Modbus/RS 232	Node	1 (fixed)											
	Baud Rate	115200 (fixed)											
	Data Bit	8 (fixed)											
	Parity Bit	No parity (fixed)											
	Stop Bit	1 (fixed)											
General Specification													
System Power	Supply Voltage : 24Vdc nominal / Supply Voltage Range : 16~28.8Vdc Protection : Output Current Limit (Min 1.5A) / Reverse Polarity Protection												
Power Dissipation	100mA Typical @24Vdc												
Current for I/O Module	1.5A @5Vdc												
Isolation	System Power to internal logic : Non-isolation / System power I/O driver : Isolation System to Physical (RJ-45) : Trans, Isolation												
Field Power	Supply Voltage : 24Vdc nominal / Supply Voltage Range : 11~28.8Vdc												
Max. Current Field Power Contact	DC 10A Max.												
Weight	167g												
Module Size	54mm x 99mm x 70mm												
Environment Condition	Refer to " Environment Specification"(page : 1-191)												

Network Adapter

LED Indicator

MOD : Module Status LED

Status	LED is	To indicate
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 (0x00000000)
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

RUN : Current Running Status LED

Status	LED is	To indicate
Init	Off	State of the EtherCAT State Machine: INIT = Initialization
Pre-Operational	Blinking	State of the EtherCAT State Machine: PREOP = Pre-Operational
Safe-Operational	Single Flash	State of the EtherCAT State Machine: SAFEOP = Safe-Operational
Initialization or Bootstrap	Flashes	State of the EtherCAT State Machine: BOOT = Bootstrap (Update of the coupler firmware)
Operational	On	State of the EtherCAT State Machine: OP = Operational

ERR : Error Status LED

Status	LED is	To indicate
No Error	Off	No Error
Invalid Configuration	Blinking	Invalid Configuration
Unsolicited State Change	Single Flash	Local Error
Application Watchdog Timeout	Double Flash	Process Data Watchdog Timeout / EtherCAT Watchdog Timeout
Booting Error	Flashes	Booting Error
PDI Watchdog Timeout	On	Application Controller Failure

I/O : Expansion Module Status LED

Status	LED is	To indicate
Not Powered Not Expansion Module	Off	Device has no expansion module or may not be powered
Fn-Bus On-line, Do not Exchanging I/O	Flashing Green	Fn-Bus is normal but does not exchanging I/O data (Passed the expansion module configuration)
Fn-Bus Connection, Run Exchanging I/O	Green	Exchanging I/O data
Fn-Bus Connection Fault during Exchanging I/O	Flashing Red	One or more expansion module occurred in fault state. - Changed expansion module configuration. - Fn-Bus communication failure.
Expansion Configuration Failed	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 24V dc field power
Supplied Field Power	Green	Supplied 24V dc field power

I/O Process Image Map

