FnIO G-Series:

GN-9285

GN-9285 (CC-Link IE Field Network Adapter)



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1. ENVIRONMENT SPECIFICATION

Environmentalspecification	
Operating Temperature	$60^{\circ}\text{C} \sim 70^{\circ}\text{C}$: Power dissipation is limited to 0.8A. $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$: 1.5A full load is allowed.
UL Temperature	-20℃~60℃
Storage Temperature	-40℃~85℃
Relative Humidity	5% ~ 90% non-condensing
Operating Altitude	2000m
Mounting	DIN rail
General specification	
Shock Operating	10g
Shock Non-Operating	30g
Vibration/shock resistance	Displacement : 0.012Inch p-p from 10~57Hz
	Acceleration: 2G's from 57~500Hz
	Sweep Rate: 1 octave Per Minute
	Axes to test: x, y, z
	Frequency Sweeps Per Axis: 10
EMC resistance burst/ESD	EMC Directive
Installation Pos. / Protect. Class	Variable/IP20
Product Certifications	CE, UL



2. GN-9285 (CC-Link IE Field NETWORK ADAPTER)

2.1. GN-9285 Specification

Items	Specification
Input Specification	
Adapter Type	Slave node (CC-Link IE Field Network)
Max. Expantsion Module	63slots
Max. Data Size(Input + Output)	Max 128 bytes each slot
Max. Nodes number	120
Interface Connector	RJ-45 socket * 2pcs 8P8C Connector
Other Serial Port	RS232 for MODBUS/RTU, Touch Pannel or IOGuide
Serial Configuration (RS232)	Node : 1 (Fixed) Baud Rate : 115200 (Fixed) Data bit : 8 (Fixed) Parity bit : No parity (Fixed) Stop bit : 1 (Fixed)
Indicator	5 LEDs 1 Green/Red, Module Status (MOD) 1 Green, Current Running Status (NET) 1 Green, Error Status (ERROR) 1 Green/Red Expansion I/O Module Statsus (IOS) 1 Green, Field Power Status 2 LEDs (each RJ45 Connector) 1 Green, Active 1 Yellow, Link
Module Location	Starter module left side of G-bus system
Field Power Detection	About 14Vdc
Ethernet Standard	IEEE 802.3ab(1000Base-T)
Cable	Shield copper Cable(Cat.5e)
Network Topology	Star / Line / Ring / Mixture of star and Line
Station class	Intelligent Device station
RX / RY Size	256Bytes
RWW / RWR Size	1024Bytes
General specification	
System Power	Supply voltage: 24Vdc nominal Supply voltage range: 15~32Vdc Protection: Output current limit (Min. 1.5A) Reverse polarity protection
Power Dissipation	140mA typical @ 24Vdc
Current for I/O Module	1.5A @ 5Vdc(When using in '60°C ~ 70 °C' temperature environment, the power dissipation is limited to 0.8A.)
Isolation	System power to internal logic: Non-isolation



System power I/O driver : Isolation

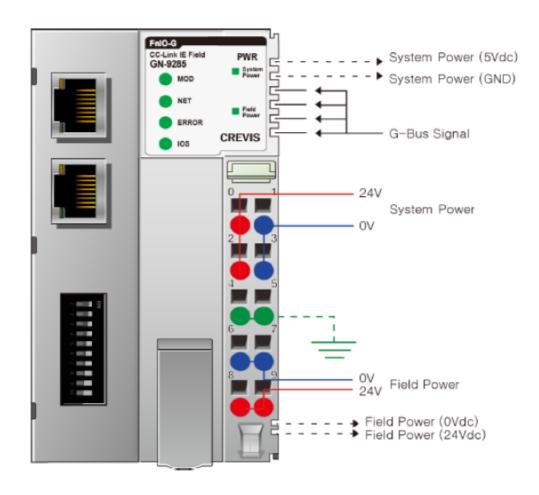
G-Series CC-Link IE Field NA

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Field Power	Supply voltage : 24Vdc nominal(Max. 32Vdc)
	* Field Power Range is different depending on IO Module series.
	Refer to IO Module's Specification.
Max. Current Field Power Contact	DC 10A Max
Weight	<165g
Module Size	54mm x 99mm x 70mm
Environment Condition	Refer to '1. Environment Specification'



2.2. GN-9285 Wire Diagram

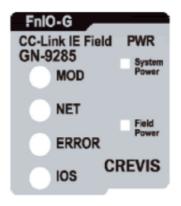


Pin No.	Signal Description	Signal Description	Pin No.
0	System Power, 24V	System Power, Ground	1
2	System Power, 24V	System Power, Ground	3
4	F.G	F.G	5
6	Field Power, Ground	Field Power, Ground	7
8	Field Power, 24V	Field Power, 24V	9



2.3. GN-9285 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
MOD	Module Status	Green/Red
NET	Current Communication status	Green/Red
ERROR	Error Status	Green
IOS	G-Bus Status	Green/Red
Field	Field Power Enable	Green
Power		

2.3.2. MOD (Module Status LED)

2.5.2: MOD (Module Status LLD)				
Status	LED is	To indicate		
Not Powered	OFF	Not power is supplied to the unit.		
Normal, Operational	Green	The unit is operating in normal condition.		
Devicce in Standby	RED	The EEPROM parameter is not initialalized yet.		
		Serial Number is zero value (0x00000000)		
Firmware upgrade	Flashing Green	Firmware upgrade. Boot mode		

2.3.3. NET (Network State LED)

Status	LED is	To indicate
Init / No Communication	Red	No Communication / Communication Disconnection
Communicaion	Green	Normal Communication
Communication Error	OFF	Communication Error / Token passing

2.3.4. ERROR (Error State LED)

Status	LED is	To indicate
No Error	OFF	
Invalid Configuration	Flashing Red	TBD

2.3.5. IOS LED (G-Bus Status LED)

Status	LED is	To indicate
Not Powered No Expansion Module	OFF	Device has no expansion module or may not be powered.
Do not have I/O	Flashing Red	Fn-bus is normal but does not exchanging I/O data. (Passed the expantion module configuration)
Internal bus Connection, Run Exchanging I/O	Green	Exchanging I/O data.
Expansion Configuration Failed	Red	One or more expansion module occurred in fault state.



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Specification Preliminary

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- Detected invalid expansion module ID.
- Too many expansion module
- Initialization failure
- Overflowed Input/Output Size
- Communication failure.
- Changed expansion module configuration.
- Mismatch vendor code between adapter and expansion module.

2.3.6. Field Power LED (Field Power, LED)

Status	LED is	To indicate	
Not supplied field power	OFF	Not supplied 24Vdc field power, 5Vdc system power.	
Supplied field power	Green	Supplied 24Vdc field power, 5Vdc system power.	

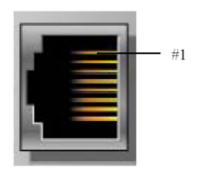
2.3.7. Indicator states and flash rates

LED ON	Constantly ON
LED OFF	Constantly OFF.
LED flickering	Equal ON and OFF times with a frequency of approximately 10 Hz: ON for approximately 50ms and OFF for approximately 50ms.
LED blinking	Equal ON and OFF times with a frequency of approximately 2, 5Hz: ON for approximately 200ms followed by OFF for approximately 200ms.
LED single flash	One short flash (approximately 200ms) followed by a long OFF phase (approximately 1000ms)
LED double flash	A sequence of two short flashes (approximately 200ms), separated by an OFF phase (approximately 200ms). The sequence is finished by a long OFF phase (approximately 1000ms)
LED triple flash	A sequence of three short flashes (approximately 200ms), separated by an OFF phase (approximately 200ms). The sequence is finished by a long OFF phase (approximately 1000ms)



2.4. GN-9285 Electrical Interface

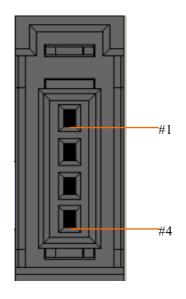
2.4.1. RJ-45 Socket



Shielded RJ-45 Socket

RJ-45	Signal Name	Description
1	TRX1+	TRX1+
2	TRX1-	TRX1-
3	TRX2+	TRX2+
4	TRX2-	TRX2-
5	TRX3+	TRX3+
6	TRX3-	TRX3-
7	TRX4+	TRX4+
8	TRX4-	TRX4-
Case	Shield	

2.4.2. RS232 Port for MODBUS/RTU, Touch Pannel or IOGuide



RS232 (37204-62A3-004PL/3M)				
Pin# Signal Name Description				
1	Reserved			
2 TXD		RS232 TXD		
3	RXD	RS232 RXD		
4	GND	RS232 GND		



2.4.3. Dip Switch



DIP		Description
Pole#		
1	Node ID #0	Min. 1 ~ Max. 120
2	Node ID #1	#default Node ID: 1
3	Node ID #2	
4	Node ID #3	
5	Node ID #4	
6	Node ID #5	
7	Node ID #6	
8	Node ID #7	
9	Fault action	OFF : Hold Last value
		ON: Clear All output value
10	= ON : Firmware upgrade	



3. MODBUS Interface

3.1. MODBUS Interface Register/Bit Map

• Register Map

Start Address	Read/Write	Description	Func. Code
0x0000 ~	Read	Process input image register(Rwr)	3,4,23
0x0800 ~	Read/Write	Process output image register(Rww)	3,16,23
0x8000 ~	Read	Process input image bit (Rx)	3,4,23
0x8800 ~	Read/Write	Process output image bit (Ry)	3,5,15,23
0x1000 *	Read	Adapter Identification special registers.	3,4,23
0x1100 *	Read	Adapter information special register.	3,4,6,23
0x2000 *	Read/Write	Expansion Slot Information special registers.	3,4,6,16,23

^{*} The special register map must be accessed by read/write of every each address (one address).

• Register Map

Start Address	Read/Write	Description	Func. Code
0x0000~	Read	Process input image bits	2
		All input registers area are addressable by bit address.	
		Size of input image bit is size of input image register * 16.	
0x1000~	Read/Write	Process output image bits 1,5,15	
		All output registers area are addressable by bit address.	
		Size of output image bit is size of output image register * 16.	

3.2. Supported MODBUS Function Codes

Function Code	Function	Description
1(0x01)	Read Coils (Read output bit)	This function code is used to read from 1 to 2000 contiguous status of coils in a remote device. The Request PDU specifies the starting address, i.e. the address of the first coil specified, and the number of coils. In the PDU Coils are addressed starting at zero. Therefore coils numbered 1-16 are addressed as 0-15. The coils in the response message are packed as one coil per bit of the data field. Status is indicated as 1= ON and 0= OFF.
2(0x02)	Read Discrete Inputs (Read input bit)	This function code is used to read from 1 to 2000 contiguous status of discrete inputs in a remote device. The Request PDU specifies the starting address, i.e. the address of the first input specified, and the number of inputs. In the PDU Discrete Inputs are addressed starting at zero. Therefore Discrete inputs numbered 1-16 are addressed as 0-15. The discrete inputs in the response message are packed as one input per bit of the data field. Status is indicated as 1= ON; 0= OFF.



3(0x03)	Read Holding Registers (Read output word)	This function code is used to read the contents of a contiguous block of holding registers in a remote device. The Request PDU specifies the starting register address and the number of registers. The register data in the response message are packed as two bytes per register, with the binary contents right justified within each byte. For each register, the first byte contains the high order bits and the second contains the low order bits.
4(0x04)	Read Input Registers (Read input word)	This function code is used to read from 1 to approx. 125 contiguous input registers in a remote device. The Request PDU specifies the starting register address and the number of registers. The register data in the response message are packed as two bytes per register, with the binary contents right justified within each byte. For each register, the first byte contains the high order bits and the second contains the low order bits.
5(0x05)	Write Single Coil (Write one bit output)	This function code is used to write a single output to either ON or OFF in a remote device. The requested ON/OFF state is specified by a constant in the request data field. A value of FF 00 hex requests the output to be ON. A value of 00 00 requests it to be OFF. All other values are illegal and will not affect the output.
6(0x06)	Write Single Register (Write one word output)	This function code is used to write a single holding register in a remote device. Therefore register numbered 1 is addressed as 0. The normal response is an echo of the request, returned after the register contents have been written.
8(0x08)	Diagnostics (Read diagnostic register) *Refer to the 4.2.1	MODBUS function code 08 provides a series of tests for checking the communication system between a client (Master) device and a server (Slave), or for checking various internal error conditions within a server. The function uses a two-byte sub-function code field in the query to define the type of test to be performed. The server echoes both the function code and sub-function code in a normal response. Some of the diagnostics cause data to be returned from the remote device in the data field of a normal response.
15(0x0F)	Write Multiple Coils (Write a number of output bits)	This function code is used to force each coil in a sequence of coils to either ON or OFF in a remote device. The Request PDU specifies the coil references to be forced. Coils are addressed starting at zero. A logical '1' in a bit position of the field requests the corresponding output to be ON. A logical '0' requests it to be OFF. The normal response returns the function code, starting address, and quantity of coils forced.
16(0x10)	Write Multiple registers (Write a number of output words)	This function code is used to write a block of contiguous registers (1 to approx. 120 registers) in a remote device. The requested written values are specified in the request data field. Data is packed as two bytes per register. The normal response returns the function code, starting address, and quantity of registers written.



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23(0x17)	Read/Write Multiple registers	Read a number of input words /Write a number of output words
	(Read a number of	This function code performs a combination of one read
	input words	operation and one write operation in a single MODBUS
	/Write a number of	transaction. The write operation is performed before the read.
	output words)	The request specifies the starting address and number of
		holding registers to be read as well as the starting address,
		number of holding registers, and the data to be written. The
		byte count specifies the number of bytes to follow in the
		write data field.
		The normal response contains the data from the group of
		registers that were read. The byte count field specifies the
		quantity of bytes to follow in the read data field.

⁻ Refer to MODBUS APPLICATION PROTOCOL SPECIFICATION V1.1a

3.2.1. 8 (0x08) Diagnostics

Sub-function 0x0000(0) Return Query Data

The data passed in the request data field is to be returned (looped back) in the response.

The entire response message should be identical to the request.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x0000(0)	Any	Echo Request Data	

Sub-function 0x0001(1) Restart Communications Option

The remote device could be initialized and restarted, and all of its communications event counters are cleared.

Especially, data field 0x55AA make the remote device to restart with factory default setup of EEPROM.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x0001(1)	0x0000, 0xFF00	Echo Request Data	Reset Only

Sub-function 0x000B(11) Return Bus Message Count

The response data field returns the quantity of messages that the remote device has detected on the communications system since its last restart, clear counters operation, or power–up.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x000B(11)	0x0000	Total Message Count	

Sub-function 0x000C(12) Return Bus Communication Error Count

The response data field returns the quantity of CRC errors encountered by the remote device since its last restart, clear counters operation, or power–up.



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Sub-function	Data Field (Request)	Data Field (Response)	Description
0x000C(12)	0x0000	CRC Error Count	

Sub-function 0x000D(13) Return Bus Exception Error Count

The response data field returns the quantity of MODBUS exception responses returned by the remote device since its last restart, clear counters operation, or power—up.

Exception responses are described and listed in section 3.2.11.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x000D(13)	0x0000	Exception Error Count	

Sub-function 0x000E(14) Return Slave Message Count

The response data field returns the quantity of messages addressed to the remote device, or broadcast, that the remote device has processed since its last restart, clear counters operation, or power—up.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x000E(14)	0x0000	Slave Message Count	

Sub-function 0x000F(15) Return Slave No Response Count

The response data field returns the quantity of messages addressed to the remote device for which it has returned no response (neither a normal response nor an exception response), since its last restart, clear counters operation, or power—up.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x000F(15)	0x0000	Slave No Response Count	

Sub-function 0x0064(100) Return Slave ModBus, Internal Status

The response data field returns the status of ModBus and Internal addressed to the remote device.

This status values are identical with status 1word of input process image.

Sub-function	Data Field (Request)	Data Field (Response)	Description
0x0064(100)	0x0000	ModBus, Internal Status	Same as status 1word

3.2.2. Error Response

In an exception response, the server sets the MSB of the function code to 1. This makes the function code value in an exception response exactly 80 hexadecimal higher than the value would be for a normal response.



• Exception Codes

Exception Code	Name	Description
01	Illegal Function	The function code received in the query is not an allowable action for the server (or slave).
02	Illegal Data Address	The data address received in the query is not an allowable address for the server (or slave).
03	Illegal Data Value	A value contained in the query data field is not an allowable value for server (or slave).
04	Slave Device Failure	An unrecoverable error occurred while the server (or slave) was attempting to perform the requested action.
05	Acknowledge	The server (or slave) has accepted the request and is processing it, but a long duration of time will be required to do so.
06	Slave Device Busy	Specialized use in conjunction with programming commands. The server (or slave) is engaged in processing a long-duration program command. The client (or master) should retransmit the message later when the server (or slave) is free.
08	Memory Parity Error	The server (or slave) attempted to read record file, but detected a parity error in the memory. The client (or master) can retry the request, but service may be required on the server (or slave) device.
0A	Gateway Path Unavailable	Specialized use in conjunction with gateways, indicates that the gateway was unable to allocate an internal communication path from the input port to the output port for processing the request.

3.3. MODBUS Special Register Map

The special register map can be accessed by function code 3, 4, 6 and 16. Also the special register map must be



accessed by read/write of every each address (one address).

3.3.1. Adapter Identification Special Register (0x1000, 4096)

Address	Access	Type, Size	Description
0x1000(4096)	Read	1 word	Vendor ID = 0x02E5(741), Crevis. Co., Ltd.
0x1001(4097)	Read	1 word	Device type = 0x000C, Network Adapter
0x1002(4098)	Read	1 word	Product code = $0x90C0(GN-9285)$
0x1003(4099)	Read	1 word	Firmware revision, if 0x0100, revision 1.00
0x1004(4100)	Read	2word	Product unique serial number
0x1005(4101)	Read	String	Product name string (ASCII)
0x1003(4101) Read		upto 34byte	"GN9285_CC-Link_IE_Adapter"
0x1010(4112)	Read	2word	Firmware release date
0x1013(4115)	Read	1 word	Firmware Code = $0x9285$
		7word	Composite Id of following address
		- 1 word	0x1100(4352), Modbus RS232 Node. (Fixed 0x0001) 0x1000(4096), Vendor ID
		- 1word	0x1001(4097), Device type
0x101E(4126)	Read	- 1word	0x1002(4098), Product code
l		- 1word	0x1003(4099), Firmware revision
		- 1word	0x1004(4100), Product serial number
		- 2word	

⁻ String Type consist of valid string length (first 1 word) and array of characters



3.3.2. Adapter Information Special Register (0x1100, 4352)

Address	Access	Type, Size	Description
0x1102(4354)	Read	1 word	Start address of input image word register. =0x0000
0x1103(4355)	Read	1word	Start address of output image word register. =0x0800
0x1104(4356)	Read	1 word	Size of input image word register. = 0x0078
0x1105(4357)	Read	1word	Size of output image word register. = 0x0078
0x1106(4358)	Read	1word	Start address of input image bit. = 0x8000
0x1107(4359)	Read	1word	Start address of output image bit. =0x8800
0x1108(4360)	Read	1 word	Size of input image bit.= 0x780
0x1109(4361)	Read	1word	Size of output image bit. = 0x780
0x110A(4362)	Read	1word	Update time for cyclic data change (same as 0x1028)
0x110D(4365)	Read	1word	Current Dip Switch State and Field Power Status (MSB) ex) Dip SW(0x01), Field Power On = 0x8001
0x110E(4366)	Read	upto 33word	Expansion slot's ST-number including NA
			First 1word is adapter's number, if GN-9289, then 0x9289
0x1110(4368)	Read	1word	Number of expansion slot
0x1113(4371)	Read	upto 33word	Expansion slot Module Id. Refer to Appendix A.1 Product List.
			First 1word is adapter's module id.
0x1119(4377)	Read	1word	Hi byte is ModBus status, low byte is internal status.
			Zero value means 'no error'.

^{*}After the system is reset, the new "Set Value" action is applied.



^{**} If the slot location is changed, set default value automatically (all expansion slot are live).

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3.3.3. Expansion Slot Information Special Register (0x2000, 8192)

Each expansion slot has 0x20(32) address offset and same information structure.

Slot#1	0x2000(8192)~0x201F(8223)	Slot#2	$0x2020(8224)\sim0x203F(8255)$
Slot#3	0x2040(8256)~0x205F(8287)	Slot#4	0x2060(8288)~0x207F(8319)
Slot#5	$0x2080(8320)\sim0x209F(8351)$	Slot#6	0x20A0(8352)~0x20BF(8383)
Slot#7	0x20C0(8384)~0x20DF(8415)	Slot#8	0x20E0(8416)~0x20FF(8447)
Slot#9	$0x2100(8448)\sim0x211F(8479)$	Slot#10	$0x2120(8480)\sim0x213F(8511)$
Slot#11	$0x2140(8512)\sim0x215F(8543)$	Slot#12	$0x2160(8544) \sim 0x217F(8575)$
Slot#13	0x2180(8576)~0x219F(8607)	Slot#14	0x21A0(8608)~0x21BF(8639)
Slot#15	0x21C0(8640)~0x21DF(8671)	Slot#16	0x21E0(8672)~0x21FF(8703)
Slot#17	0x2200(8704)~0x221F(8735)	Slot#18	0x2220(8736)~0x223F(8767)
Slot#19	$0x2240(8768)\sim0x225F(8799)$	Slot#20	0x2260(8800)~0x227F(8831)
Slot#21	0x2280(8832)~0x229F(8863)	Slot#22	0x22A0(8864)~0x22BF(8895)
Slot#23	0x22C0(8896)~0x22DF(8927)	Slot#24	0x22E0(8928)~0x22FF(8959)
Slot#25	0x2300(8960)~0x231F(8991)	Slot#26	0x2320(8992)~0x233F(9023)
Slot#27	0x2340(9024)~0x235F(9055)	Slot#28	0x2360(9056)~0x237F(9087)
Slot#29	0x2380(9088)~0x239F(9119)	Slot#30	0x23A0(9120)~0x23BF(9151)
Slot#31	0x23C0(9152)~0x23DF(9183)	Slot#32	0x23E0(9184)~0x23FF(9215)
Slot#33	0x2400(9216)~0x241F(9247)	Slot#34	0x2420(9248)~0x243F(9279)

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Slot#63 0x27C0(10176)~0x27DF(10207)

Address	Expansion	Expansion	Expansion	Expansion	•••••	Expansion
Offset	Slot#1	Slot#2	Slot#3	Slot#4		Slot#63
+ 0x00(+0)	0x2000(8192)	0x2020(8224)	0x2040(8256)	0x2060(8288)		0x27C0(10176)
+0x01(+1)	0x2001(8193)	0x2021(8225)	0x2041(8257)	0x2061(8289)		0x27C1(10177)
+0x02(+2)	0x2002(8194)	0x2022(8226)	0x2042(8258)	0x2062(8290)		0x27C2(10178)
+0x03(+3)	0x2003(8195)	0x2023(8227)	0x2043(8259)	0x2063(8291)		0x27C3(10179)
+0x04(+4)	0x2004(8196)	0x2024(8228)	0x2044(8260)	0x2064(8292)		0x27C4(10180)
+0x05(+5)	0x2005(8197)	0x2025(8229)	0x2045(8261)	0x2065(8293)		0x27C5(10181)
+0x06(+6)	0x2006(8198)	0x2026(8230)	0x2046(8262)	0x2066(8294)		0x27C6(10182)
+0x07(+7)	0x2007(8199)	0x2027(8231)	0x2047(8263)	0x2067(8295)		0x27C7(10183)
+0x08(+8)	0x2008(8200)	0x2028(8232)	0x2048(8264)	0x2068(8296)		0x27C8(10184)
+0x09(+9)	0x2009(8201)	0x2029(8233)	0x2049(8265)	0x2069(8297)		0x27C9(10185)
+0x0A(+10)	0x200A(8202)	0x202A(8234)	0x204A(8266)	0x206A(8298)		0x27CA(10186)
+0x0B(+11)	0x200B(8203)	0x202B(8235)	0x204B(8267)	0x206B(8299)		0x27CB(10187)
+0x0C(+12)	0x200C(8204)	0x202C(8236)	0x204C(8268)	0x206C(8300)		0x27CC(10188)
+0x0D(+13)	0x200D(8205)	0x202D(8237)	0x204D(8269)	0x206D(8301)		0x27CD(10189)
+0x0E(+14)	0x200E(8206)	0x202E(8238)	0x204E(8270)	0x206E(8302)		0x27CE(10190)
+ 0x0F(+15)	0x200F(8207)	0x202F(8239)	0x204F(8271)	0x206F(8303)		0x27CF(10191)
+0x10(+16)	0x2010(8208)	0x2030(8240)	0x2050(8272)	0x2070(8304)		0x27D0(10192)
+0x11(+17)	0x2011(8209)	0x2031(8241)	0x2051(8273)	0x2071(8305)		0x27D1(10193)
+0x12(+18)	0x2012(8210)	0x2032(8242)	0x2052(8274)	0x2072(8306)		0x27D2(10194)
+0x13(+19)	0x2013(8211)	0x2033(8243)	0x2053(8275)	0x2073(8307)		0x27D3(10195)
+0x14(+20)	0x2014(8212)	0x2034(8244)	0x2054(8276)	0x2074(8308)		0x27D4(10196)
+0x15(+21)	0x2015(8213)	0x2035(8245)	0x2055(8277)	0x2075(8309)		0x27D5(10197)
+0x16(+22)	0x2016(8214)	0x2036(8246)	0x2056(8278)	0x2076(8310)		0x27D6(10198)
+0x17(+23)	0x2017(8215)	0x2037(8247)	0x2057(8279)	0x2077(8311)		0x27D7(10199)
+0x18(+24)	0x2018(8216)	0x2038(8248)	0x2058(8280)	0x2078(8312)		0x27D8(10200)
+0x19(+25)	0x2018(8217)	0x2038(8249)	0x2058(8281)	0x2078(8313)		0x27D9(10201)
+0x1A(+26)	0x201A(8218)	0x203A(8250)	0x205A(8282)	0x207A(8314)		0x27DA(10202)
+0x1B(+27)	0x201B(8219)	0x203B(8251)	0x205B(8283)	0x207B(8315)		0x27DB(10203)
+0x1C(+28)	0x201C(8220)	0x203C(8252)	0x205C(8284)	0x207C(8316)		0x27DC(10204)
+0x1D(+29)	0x201D(8221)	0x203D(8253)	0x205D(8285)	0x207D(8317)		0x27DD(10205)
+0x1E(+30)	0x201E(8222)	0x203E(8254)	0x205E(8286)	0x207E(8318)		0x27DE(10206)



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+ 0x1F(+31)	0x201F(8223)	0x203F(8255)	0x205F(8287)	0x207F(8319)		0x27DF(10207)
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Address Offset	Access	Type, Size	Description
+ 0x02(+2) **	Read	1word	Input start register address of input image word this slot.
+ 0x03(+3) **	Read	1word	Input word's bit offset of input image word this slot.
+ 0x04(+4) **	Read	1word	Output start register address of output image word this slot.
+ 0x05(+5) **	Read	1word	Output word's bit offset of output image word this slot.
+ 0x06(+6) **	Read	1word	Input bit start address of input image bit this slot.
+ 0x07(+7) **	Read	1word	Output bit start address of output image bit this slot.
+ 0x08(+8) **	Read	1word	Size of input bit this slot
+ 0x09(+9) **	Read	1word	Size of output bit this slot
+ 0x0A(+10)**	Read	n word	Read input data this slot
+ 0x0B(+11)**	Read	n word	Read output data this slot
+ 0x0E(+14)	Read	1word	ST-number, if ST-1218, returns 0x1218
			First 1word is length of valid character string.
			If ST-1218, returns
+ 0x0F(+15)	Read	String	"00 20 53 54 2D 31 32 31 38 2C 20 46 6E 49 4F 20 38 20 53 69
		upto 72byte	6E 6B 69 6E 67 20 49 6E 20 32 34 56 64 63"
			Valid character size = $0x001E = 30$ characters,
			"GT-1218, FnIO 8 Sinking In 24Vdc"
+ 0x10(+16)	Read	1word	Size of configuration parameter byte
+ 0x11(+17)**	Read/Write	n word	Read/write Configuration parameter data, up to 8byte. Refer to A.2 ***
+ 0-17(+22)	D 1	2 1	Firmware Revision
+ 0x17(+23)	Read	2word	ex) 0x00010010 (Major revision 1 /Minor revision 1, Rev 1.001)

^{*} After the system is reset, the new "Set Value" action is applied.



^{**} Nothing of output, input, memory or configuration parameter corresponding slot returns Exception 02.