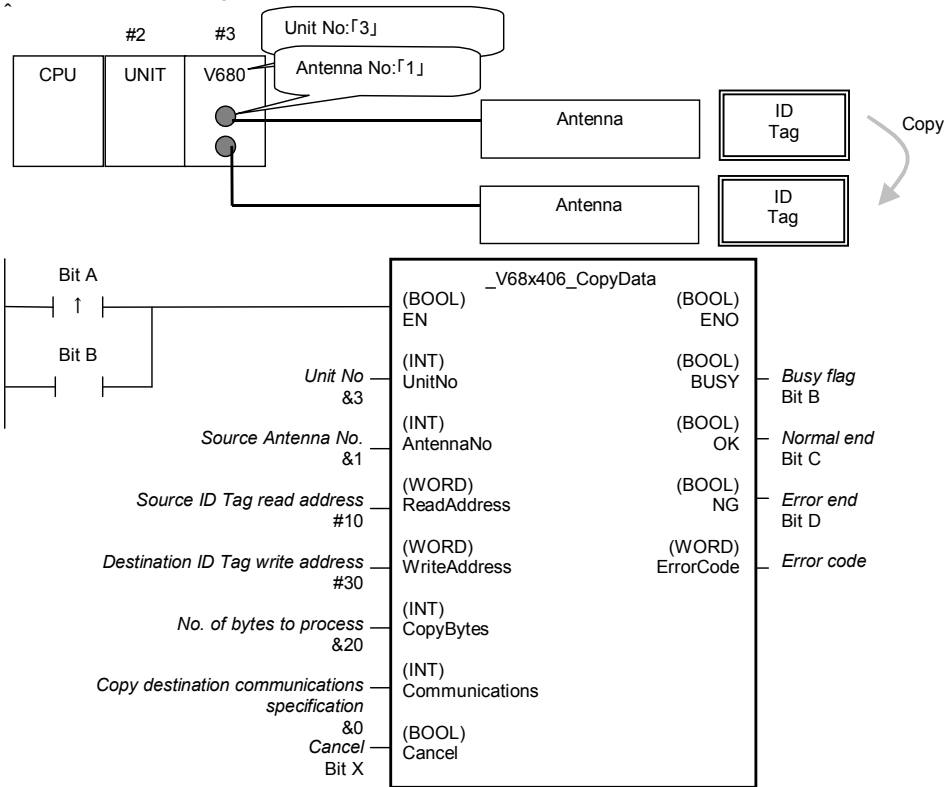


V68x 406	Copy ID Tag _V68x406_Copy
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Basic function	Copies the data from one ID Tag and writes it to another ID Tag.	
Symbol		
File name	Lib\FBL\omronlib\RFID\V680_V68x406_CopyData10.cxf	
Applicable models	ID Sensor Units	CS1W-V680C12 and CJ1W-V680C12
	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H
	CX-Programmer	Version 5.0 or higher
Language used	Ladder Language	
Function description	Data is copied from the specified area of the ID Tag specified by the <i>Unit No.</i> and <i>Antenna No.</i> and written to the specified area of another ID Tag.	
Kind of FB definition	<p>This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to completion (see <i>Symbol</i>).</p> <p>Do not turn the BUSY output variable ON or OFF outside the FB.</p>	
FB precautions	<ul style="list-style-type: none"> • Verification will not be performed unless it is specified when writing. • The update method for the ID Tag that receives the copy will be set to a trigger. • The Status Flag in the error information will turn ON if an error occurs for the Antenna receiving the copy. • The FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed. • OK or NG will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing. <p>Timechart</p> <ul style="list-style-type: none"> • This FB cannot be executed if the ID Sensor Unit is busy. The NG Flag will turn ON if an attempt is made. • When FB is executed if result monitor output of the system construction is set to the setting of the noise level, the noise level is output to the error code. 	
EN input condition	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY output from the FB.	
Restrictions Input variables	<ul style="list-style-type: none"> • Always use an upwardly differentiated condition for EN. • If the input variables are out of range, the ENO Flag will turn OFF, the NG Flag will turn ON, and the FB will not be processed. • Check the memory capacity of the ID Tag when specifying the address and number of bytes to process at both the copy source and destination. An address error will be output if the specified address or number of bytes to process is not suitable for the memory capacity of the ID Tag being communicated with. • The communication designation becomes use only &0: Trigger or &1:Auto. • No. of bytes to process is 0 if executed, the units depend on the state of no clear error code. And a normal end. 	
Output variables	<ul style="list-style-type: none"> • This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to completion (see <i>Symbol</i>). • Do not turn the BUSY output variable ON or OFF outside the FB. 	

<p>Application example</p>	<p>When bit A turns ON in the following example, 20 bytes of data beginning with address 10(Hex) in the ID Tag connected to Antenna 1 of the ID Sensor Unit with unit number 3 will be copied beginning with address 30(Hex) of the ID Tag connected to Antenna 2.</p>  <p>Unit No: '3' Antenna No: '1' Antenna ID Tag Copy Antenna ID Tag</p> <p>Bit A ↑ Bit B</p> <p>Unit No &3 Source Antenna No. &1 Source ID Tag read address #10 Destination ID Tag write address #30 No. of bytes to process &20 Copy destination communications specification &0 Cancel Bit X</p> <p>_V68x406_CopyData</p> <p>(BOOL) EN (BOOL) ENO (INT) UnitNo (BOOL) BUSY <i>Busy flag Bit B</i> (INT) AntennaNo (BOOL) OK <i>Normal end Bit C</i> (WORD) ReadAddress (BOOL) NG <i>Error end Bit D</i> (WORD) WriteAddress (WORD) ErrorCode <i>Error code</i> (INT) CopyBytes (INT) Communications (BOOL) Cancel</p>
<p>Related manuals</p>	<p>ID Sensor Unit Operation Manual (SCHI-711) 4 I/O Data Allocations, Error Codes 6 Communications Commands, Copy</p>

■ Variable Tables
Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			ON is executed when FB has been turned on. 1 (ON): FB started. 0 (OFF): FB not started.
Unit No.	UnitNo	INT	&0	&0~&94	Specify the unit number. 0 to 94 until set. There are two reasons the unit occupied the command to use.
Source Antenna No.	AntennaNo	INT	&1	&1~&2	Specify the antenna number of the object. &1: Antenna 1 &2: Antenna 2
Source ID Tag read address	ReadAddress	WORD	#0		Source ID Tag read address beginning of the address specified in hexadecimal notation.
Destination ID Tag write address	WriteAddress	WORD	#0		Destination ID Tag write address beginning of the address specified in hexadecimal notation.
No. of bytes to process	CopyBytes	INT	&0	&0~&2048	Specify the number of processing bytes of ID tag. Consider the ID Tag capacity when setting. Nothing will be performed and a normal end will be output for &0.
Copy destination communications specification	Communications	INT	&0	&0~&1	Specify the communication method with the ID tag. &0: Trigger &1: Auto The communications specification for the destination will be set to a trigger.
Cancel	Cancel	BOOL	0(OFF)		0→1: Cancels processing.

Output Variables

Name	Variable name	Data type	Default	Description
ENO (May be omitted.)	ENO	BOOL		1 (ON): FB processed normally. 0 (OFF): FB not processed or ended in an error.
Busy Flag	BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	NG	BOOL		Turns ON for one cycle when processing ends in an error.
Error code	ErrorCode	WORD		Outputs the results from the ID Sensor Unit. Refer to the <i>Related Manuals</i> for details. #0014: Data storage area Specification error * #0014: Command error * #0070: ID Tag communications error #0071: Verification error #0072: ID Tag missing error #0076: Status Flag #0077: Error correction #0079: ID system error 1 #007A: ID Tag address error #007C: Antenna error flag #007D: Write protection error #007E: ID system error 2 #007F: ID system error 3 #FFFF: ID Tag is communicating. #FFFF: Input parameter error * :#0014 has two item factor. Please confirm, and divide the corresponding flag about details.「Related manuals SCHI-711 7 Abnormal processing 」

■Version History

Version	Date	Contents
1.00	2008.04.	Original production