

20.13 Converting DWORD to WORD

DWORD_TO_WORD(_E)

FX5S | **FX5UJ** | **FX5U** | **FX5UC**

These functions convert DWORD type data to WORD type data.

Ladder diagram, FBD/LD	Structured text
[Without EN/ENO]  [With EN/ENO] 	[Without EN/ENO] <pre>d:=DWORD_TO_WORD(s);</pre> [With EN/ENO] <pre>d:=DWORD_TO_WORD_E(EN,ENO,s);</pre>

Setting data

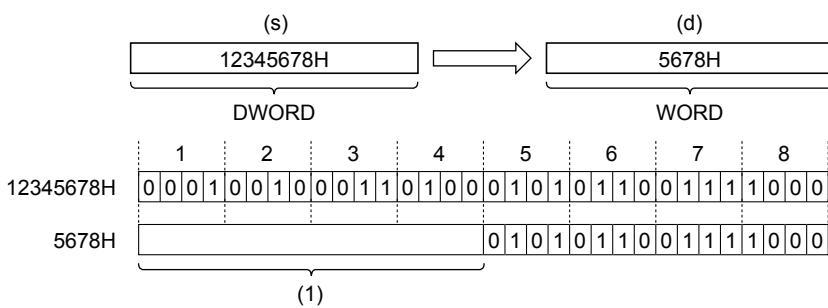
■ Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s(IN)	Input	Input variable	DWORD
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(DWORD_TO_WORD(_E))	Output	Output variable	WORD

Processing details

■Operation processing

- These functions convert the DWORD type data input to (s) to WORD type data and output from (d).
 - The information stored in high-order 16 bits of an input value is discarded. (Refer to (1) in the figure below.)



- A value input to (s) is the DWORD type data value.

■Operation result

1. Function without EN/ENO

The operation processing is executed. The operation output value is output from (d).

2. Function with EN/ENO

The following table lists the execution conditions and operation results.

Execution condition	Operation result	
EN	ENO	(d)
TRUE (Executes operation)	TRUE	Operation output value
FALSE (Stops operation)	FALSE ^{*1}	Indefinite value

*1 When FALSE is output from ENO, data output from (d) is undefined. In that case, modify a program so that the data output from (d) is not used.



When DWORD_TO_WORD(_E) is executed, the information stored in high-order 16 bits of the DWORD type data value input from (s) is discarded.

Operation error

There is no operation error.