

# Multiplying BCD 8-digit data

## DB\*(P)

FX5S FX5UJ FX5U FX5UC

These instructions multiply the BCD 8-digit data specified by (s1) and the BCD 8-digit data specified by (s2), and store the results in the device specified by (d).

Ladder diagram	Structured text
	Not supported

FBD/LD
 ("DBMULTI", "DBMULTIP" enters □.)

7

## Setting data

### ■Descriptions, ranges, and data types

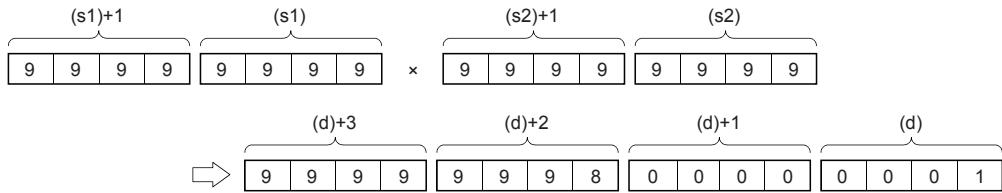
Operand	Description	Range	Data type	Data type (label)
(s1)	Multiplicand data or the head device where the data to be multiplied by another is stored	0 to 99999999	BCD 8-digit	ANY32
(s2)	Multiplier data or the head device where the data by which another is to be multiplied is stored	0 to 99999999	BCD 8-digit	ANY32
(d)	Head device for storing the operation result	—	BCD 16-digit	ANY32_ARRAY (Number of elements: 2)
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

### ■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
		X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC		K, H	E	\$	
(s1)	○	○	○	○	○	○	○	○	—	—	—
(s2)	○	○	○	○	○	○	○	○	—	—	—
(d)	○	○	—	—	○	—	○	—	—	—	—

## Processing details

- These instructions multiply the BCD 8-digit data specified by (s1) and the BCD 8-digit data specified by (s2), and store the multiplication results in the device specified by (d).



- When (d) is a bit device, only the lower 8 nibbles (32 bits) of the multiplication result are stored, and the higher 8 nibbles (32 bits) cannot be specified.

### Ex.

Multiplication result when (d) is a bit device

- K1 ... Lower 1 nibble (b0 to b3)
- K4 ... Lower 4 nibble (b0 to b15)
- K8 ... Lower 8 nibble (b0 to b31)

## Operation error

Error code (SD0/SD8067)	Description
2820H	The device specified by (d) exceeds the corresponding device range.
3405H	BCD data in the device specified by (s1) is outside of the valid range (0 to 99999999).
	BCD data in the device specified by (s2) is outside of the valid range (0 to 99999999).