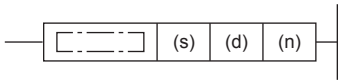
Connecting 4 bits to 16-bit data

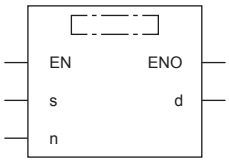
UNI(P)

FX5S FX5UJ FX5U FX5UC

These instructions link the lower-order 4 bits of the 16-bit binary data of the (n) number of devices starting from the one specified by (s) to the device storing 16-bit binary data specified by (d).

Ladder diagram	Structured text
	ENO:=UNI(EN,s,n,d); ENO:=UNIP(EN,s,n,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

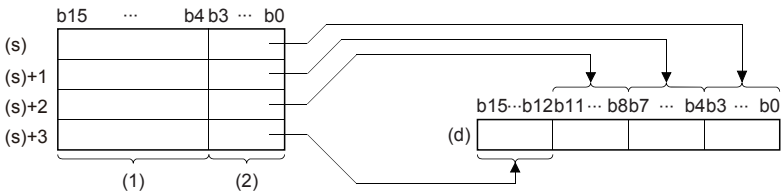
Operand	Description	Range	Data type	Data type (label)
(s)	Head device for storing the data to be linked	—	16-bit signed binary	ANY16
(d)	Head device for storing the linked data	—	16-bit signed binary	ANY16
(n)	Number of links	1 to 4	16-bit unsigned binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution 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	LZ		K, H	E	$	
(s)	—	○	—	—	—	—	○	—	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—
(n)	○	○	○	○	—	—	○	○	—	—	—

Processing details

- These instructions link the lower-order 4 bits of the 16-bit binary data of the (n) number of devices starting from the one specified by (s) to the device storing 16-bit binary data specified by (d).

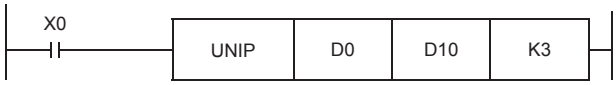


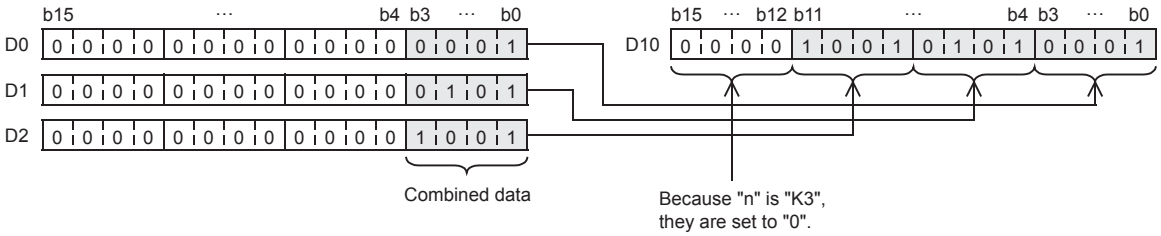
(1): Ignored
(2): Data to be connected

- The higher-order (4-n) nibble bits of the device specified by (d) becomes 0.
- When (n) is 0, no processing is performed, and the contents of the device specified by (d) do not change.

Program example

In the program below, the low-order 4 bits of D0 to D2 are combined and stored in D10 when X0 turns ON.





Operation error

Error code (SD0/SD8067)	Description
2820H	The range of (n) number of points from (d) exceed the corresponding device range.
3401H	(n) is other than 0 to 4.