



UDINT (32-bit integers)

Description

An operand of data type UDINT (Unsigned Double INT) has a length of 32 bits and contains unsigned numerical values.

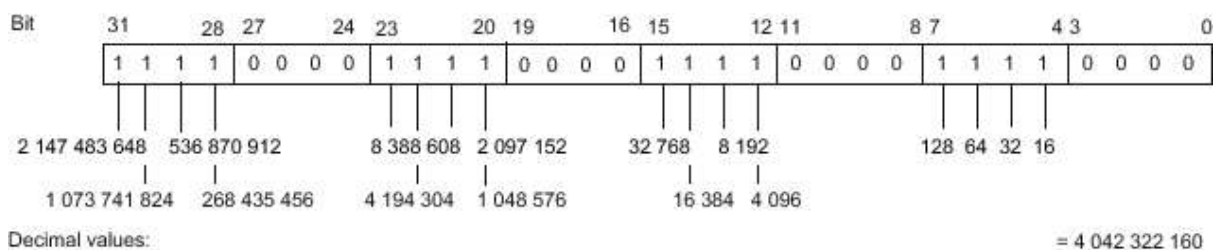
An operand of data type UDINT occupies four BYTE in the memory.

The following table shows the properties of data type UDINT:

Length (bits)	Format	Value range	Examples of value input
32	Unsigned integers (decimal system)	0 to 4_294_967_295	<ul style="list-style-type: none"> • 4_042_322_160 • UDINT#4_042_322_160 • UDINT#10#4_042_322_160
	Binary numbers	2#0 to 2#1111_1111_1111_1111	<ul style="list-style-type: none"> • 2#1111_0000_1111_0000_1111_0000_1111_0000 • UDINT#2#1111_0000_1111_0000_1111_0000_1111_0000 • UDINT#2#10
	Octal numbers	8#0 to 8#377_7777_7777	<ul style="list-style-type: none"> • 8#360_7417_0360 • UDINT#8#360_7417_0360
	Hexadecimal numbers	16#0 to 16#FFFF_FFFF	<ul style="list-style-type: none"> • 16#F0F0_F0F0 • UDINT#16#F0F0_F0F0

Example

The following figure shows the integer 4042322160 as a binary number:



See also

- [Overview of the valid data types](#)
- [Basics of constants](#)
- [Data type conversion for S7-1200 \(S7-1200\)](#)