



## ULINT (64-bit integers)

### Description

An operand of data type ULINT (Unsigned Long INT) has a length of 64 bits and contains unsigned numerical values.

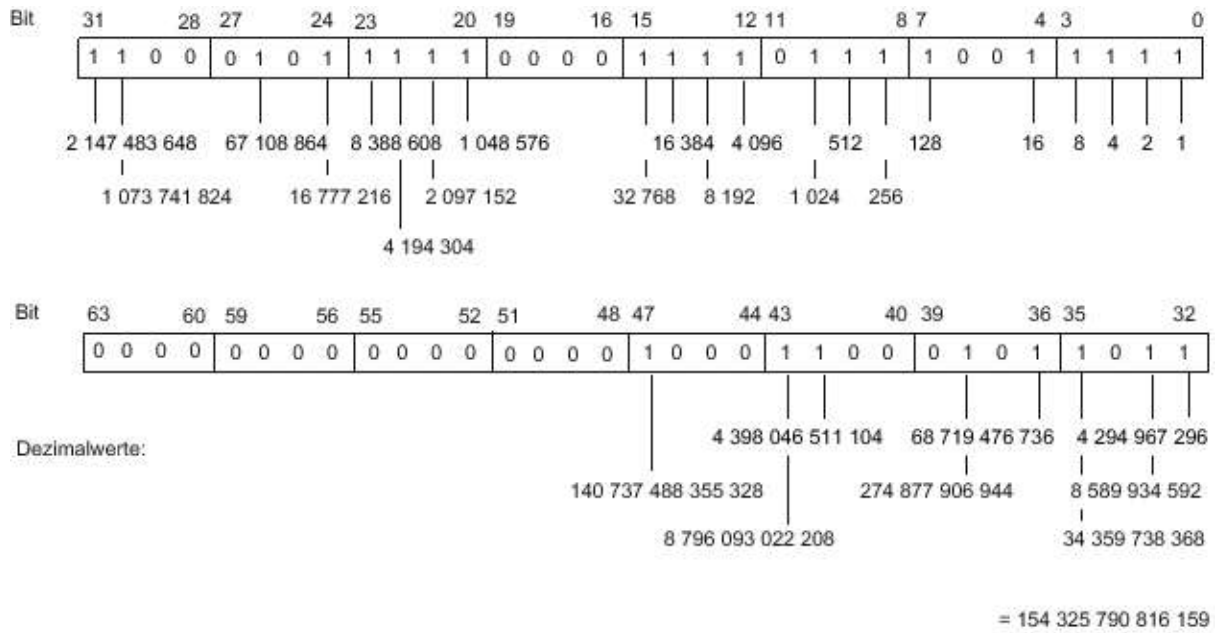
An operand of data type ULINT occupies eight BYTE in the memory.

The following table shows the properties of data type ULINT:

Length (bits)	Format	Value range	Examples of value input
64	Unsigned integers (decimal system)	0 to 18_446_744_073_709_551_615	<ul style="list-style-type: none"> <li>• 154_325_790_816_159</li> <li>• ULINT#154_325_790_816_159</li> <li>• ULINT#10#154_325_790_816_159</li> </ul>
	Binary numbers	2#0 to 2#1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111_1111	<ul style="list-style-type: none"> <li>• 2#0000_0000_0000_0000_1000_1100_0101_1011_1100_0101_1111_0000_1111_0111_1001_1111</li> <li>• ULINT#2#0000_0000_0000_0000_1000_1100_0101_1011_1100_0101_1111_0000_1111_0111_1001_1111</li> <li>• ULINT#2#10</li> </ul>
	Octal numbers	8#0 to 8#17_7777_7777_7777_7777_7777_7777_7777	<ul style="list-style-type: none"> <li>• 8#4305_5705_7417_3637</li> <li>• ULINT#8#4305_5705_7417_3637</li> </ul>
	Hexadecimal numbers	16#0 to 16#FFFF_FFFF_FFFF_FFFF_FFFF_FFFF	<ul style="list-style-type: none"> <li>• 16#0000_8C5B_C5F0_F79F</li> <li>• ULINT#16#0000_8C5B_C5F0_F79F</li> </ul>

### Example

The following figure shows the integer 154325790816159 as a binary number:



**See also**

- [Overview of the valid data types](#)
- [Overview of data type conversion \(S7-1500\)](#)
- [Basics of constants](#)
- [Implicit conversions \(S7-1500\)](#)
- [Explicit conversions \(S7-1500\)](#)
- [Data type conversion for S7-1200 \(S7-1200\)](#)