

32 Bit ADDER

USER GUIDE

Symbol:

Input/Output	Signal Name
Input	input1 (32 bit)
Input	input2 (32 bit)
Output	soma (32 bit)

Parameters:

SIZE – Equals to 32. Used to set the max value of bits that the input numbers can have and the max value of bits that the adder can show after adding both input numbers together.

Signals:

Input1 – input value of maximum 32 bits. It is used by the 32 bit adder to get the result of the addition of both input values.

Input2 – input value of maximum 32 bits. It is used by the 32 bit adder to get the result of the addition of both input values.

Soma – output value of 32 bits. Show the result of adding both the input1 and input2 signals. In the case of the addition resulting in a number with 33 bits the 33rd bit is lost only showing the 32 least significant bits.