
4-bit multiplier

X30847_en

Design a combinational 4-bit multiplier. The circuit receives two 4-bit numbers and produces an 8-bit result.

Specification

```
module multiplier4(A, B, AxB);  
    input [3:0] A, B;  
    output [7:0] AxB;
```

Input

- A and B are the two 4-bit input numbers.

Output

- AxB is the 8-bit output representing the product of the input numbers.

Problem information

Author: Jordi Cortadella

Generation: 2026-02-03T12:13:51.488Z

© Jutge.org, 2006–2026.

<https://jutge.org>