Parity X16400_en

Design a circuit that calculates the parity of an 8-bit input vector. The output of the circuit must be 0 if the input vector has an even number of zeros, otherwise the output must be 1.

Specification

module *parity8*(*v*, *parity*);
  input [7:0] *v*;
  output *parity*;

Input

- *v* is the 8-bit input vector.

Output

- *parity* indicates the parity of the input vector.

Problem information

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