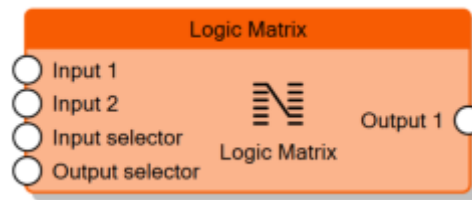# Logic Matrix

The Logic Matrix, given some inputs determined by the **Number of inputs** property and some outputs determined by the **Number of outputs** property, forwards the value of a selected input to a selected output. The selection of inputs and outputs is decided by the value of two inputs, **Input selector** and **Output selector**.
The **Data type** property determines the inputs and outputs data type managed by the matrix; if it is set to *1 bit Boolean*, the inputs and outputs are the standard connectors for all the logic nodes as explained here, otherwise the **Inverted** property on the connectors won't be available.

Input and Ouput selectors

These connectors have two properties to define their behaviour:

- **Default control value** It indicates the default input/output with a number [0-255] representing the 0-base index of the input/output.
- **Update every control value** If enabled in the Input selector, outputs will be updated for every value received by the Input selector. If disabled, outputs will be refreshed only when the selected input receives a new value or, if this property is enabled in the Output selector, when the Output selector receives a new value.

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