Multiple input gates list

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People are most familiar with the ones that are named: NAND, NOR, AND, OR, XOR. Table 1 includes these, as well as AND and OR gates with either input negated, logic 0 and logic 1(which aren"t really logic gates), and some gates that aren"t really binary.

In simple words, a logic gate is a digital circuit with multiple inputs and a single output. The relationship between the inputs and output of the logic gate follows a certain logic. This logic sticks to the rules of Boolean Algebra.

An analog signal is a continuous time-varying current or voltage signal, whereas a digital signal is a pulsating waveform of two discrete values-high and low. These two discrete values are represented by binary numbers 0 and 1. A digital circuit is an electronic circuit that processes digital signals.

The decimal system has a base or radix of 10 meaning that the number is represented by ten digits 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. Similarly, the binary system has a base or radix of 2 with only two digits: 0 and 1.

OR Operation is a form of logic addition represented by the (+) sign with two or multiple inputs producing one output. The OR Operation produces HIGH output (1) only if one or all the inputs to the digital circuit are HIGH (1). If both of the inputs are LOW (0), the output of the digital circuit will also be LOW (0).

Consider a circuit with two switches connected in parallel to an LED. The LED would be ON if the current flows through the circuit. For the current to flow, one of the switches must be closed.

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