

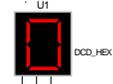
List of Commonly Components in MultiSIM

The following table lists various commonly used components that are included in the standard distribution of MultiSIM software from National Instruments. All of the following components are present in the Master Database in MultiSIM. Choose the corresponding Group, Family, and Component (in the Select a Component dialog box in MultiSIM) to use it in a schematic.

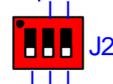
Power & Ground:

Group	Family	Component (s)	Description	Symbol
Sources	POWER_SOURCES	VCC	Positive DC voltage to drive all logic circuits	
Sources	POWER_SOURCES	GND	Generic ground	

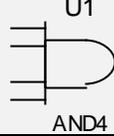
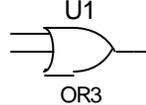
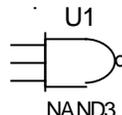
Indicators/Displays:

Group	Family	Component (s)	Description	Symbol
Indicators	LAMP	5V_1W	A simple lamp (ground one end for use with logic circuits)	
Indicators	HEX_DISPLAY	DCD_HEX	A 7-segment decoder and hexadecimal display	

Switches:

Group	Family	Component (s)	Description	Symbol
Basic	Switch	DSWPK_2, DSWPK_3, ..., DSWPK_10	Multiple input/output DIP switches.	
Basic	Switch	SPST	A simple on/off switch	

Digital Logic Devices:

Group	Family	Component (s)	Description	Symbol
Misc Digital	TIL	AND2, AND3, AND4, AND5, AND6, AND7, AND8	Generic, multiple input (inputs range from 2 to 8) AND logic gates.	
Misc Digital	TIL	OR2, OR3, OR4, OR5, OR6, OR7, OR8	Generic, multiple input (inputs range from 2 to 8) OR logic gates.	
Misc Digital	TIL	NOT	Generic NOT gate	
Misc Digital	TIL	NAND2, NAND3, NAND4, NAND5, NAND6, NAND7, NAND8	Generic, multiple input (inputs range from 2 to 8) NAND logic gates.	

Group	Family	Component (s)	Description	Symbol
Misc Digital	TIL	NOR2, NOR3, NOR4, NOR5, NOR6, NOR7, NOR8	Generic, multiple input (inputs range from 2 to 8) NOR logic gates.	
Misc Digital	TIL	EOR2, EOR3, EOR4, EOR5, EOR6, EOR7, EOR8	Generic, multiple input (inputs range from 2 to 8) XOR (\oplus) logic gates.	
Misc Digital	TIL	MUX_2TO1, MUX_4TO1, MUX_8TO1	Generic multiplexers with n -inputs and 1 output. Use D_0, D_1, \dots, D_n for inputs, A, B, \dots, D for selection logic and Y for output.	
Misc Digital	TIL	DCD_2TO4, DCD_3TO8, DCD_4TO16	Generic decoder that can be used to implement DEMUX. Use A, B, \dots, D for selection logic and devices enables Y_0, Y_1, \dots, Y_n based on selection lines.	
Misc Digital	TIL	D_FF	A generic D-Flip Flop	
Misc Digital	TIL	D_LATCH	A generic D-Latch	
Misc Digital	TIL	SR_FF	A generic SR (Set-Reset) Flip Flop	
Misc Digital	TIL	SR_LATCH	A generic SR (Set-Reset) Latch	
Misc Digital	TIL	FULL_ADDER	A generic full adder	
Misc Digital	TIL	HALF_ADDER	A generic half adder	
Misc Digital	TIL	QUAD_REG	Single package with 4 synchronized registers.	