

1 AND Gate

The expression $C = A \times B$ reads as “C equals A AND B” The multiplication sign (\times) stands for the AND operation, same for ordinary multiplication of 1s and 0s.



1.1 NB

The AND operation produces a true output (result of 1) only for the single case when all of the input variables are 1 and a false output (result of 0) where

one or more inputs are 0.

Truth table				Symbol	
Two Input AND gate					
A	B	Y = A × B			
0	0	0			
0	1	0			
1	0	0			
1	1	1			

Symbol

A 1
B 0

OR

Y = A + B