

# NOR3X1(data type: typ)

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## Function

$Y = \neg(A \vee B \vee C)$

## Static Power:

When	Static Power [nW]
-	0.135

## Port:

Name	Direction
A	INPUT
B	INPUT
C	INPUT
Y	OUTPUT

Name	Pin Capacitance [pF]	
	Rise	Fall
A	0.0372	0.0377
B	0.0374	0.0376
C	0.0387	0.0385

## Output Driving Strength

Name	Rise		Fall	
	Strength (sec/F)	Limit (pF)	Strength (sec/F)	Limit (pF)
Y	1.6e+03	0.357	2.22e+03	0.357

## Link To Path

PATH	WHEN
<a href="#">(01B=&gt;10Y)</a>	-
<a href="#">(10B=&gt;01Y)</a>	-
<a href="#">(01C=&gt;10Y)</a>	-
<a href="#">(10C=&gt;01Y)</a>	-

<a href="#">(01A=&gt;10Y)</a>	-
<a href="#">(10A=&gt;01Y)</a>	-

(01B=>10Y)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.202	0.261	0.375	0.821	1.48
0.18	0.223	0.281	0.394	0.839	1.5
0.42	0.288	0.346	0.454	0.89	1.55
0.6	0.333	0.395	0.507	0.934	1.59
1.2	0.468	0.541	0.668	1.1	1.74

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.375	0.363	0.35	0.337	0.332
0.18	0.369	0.366	0.357	0.339	0.331
0.42	0.204	0.229	0.255	0.291	0.303
0.6	0.0335	0.0759	0.13	0.217	0.258
1.2	0.624	0.544	0.424	0.167	0.00788

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(10B=>01Y)

DELAY [ns]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	0.123	0.164	0.245	0.565	1.05
0.18	0.129	0.176	0.256	0.576	1.06
0.42	0.135	0.189	0.281	0.603	1.08
0.6	0.135	0.196	0.295	0.627	1.1
1.2	0.122	0.198	0.323	0.7	1.18

POWER [pJ]

cl[pF]	0.025	0.05	0.1	0.3	0.6
ts[ns]					
0.06	1.45	1.45	1.45	1.46	1.46
0.18	1.46	1.48	1.47	1.47	1.46
0.42	1.67	1.64	1.59	1.54	1.51
0.6	1.85	1.8	1.74	1.63	1.57

<b>1.2</b>	2.55	2.46	2.34	2.07	1.9
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(01C=>10Y)

DELAY [ns]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.136	0.198	0.317	0.769	1.43
<b>0.18</b>	0.163	0.221	0.337	0.787	1.45
<b>0.42</b>	0.212	0.28	0.395	0.835	1.5
<b>0.6</b>	0.243	0.318	0.443	0.877	1.54
<b>1.2</b>	0.333	0.428	0.577	1.04	1.68

POWER [pJ]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.42	0.376	0.33	0.28	0.263
<b>0.18</b>	0.376	0.372	0.333	0.287	0.262
<b>0.42</b>	0.206	0.228	0.247	0.252	0.246
<b>0.6</b>	0.0372	0.0804	0.129	0.188	0.207
<b>1.2</b>	0.601	0.514	0.393	0.164	0.0324

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(10C=>01Y)

DELAY [ns]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.0857	0.129	0.209	0.53	1.01
<b>0.18</b>	0.106	0.155	0.235	0.554	1.03
<b>0.42</b>	0.127	0.188	0.286	0.606	1.08
<b>0.6</b>	0.137	0.206	0.314	0.649	1.12
<b>1.2</b>	0.149	0.24	0.381	0.782	1.26

POWER [pJ]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.876	0.888	0.896	0.908	0.916
<b>0.18</b>	0.94	0.938	0.931	0.925	0.921
<b>0.42</b>	1.18	1.14	1.08	1.01	0.974
<b>0.6</b>	1.37	1.31	1.23	1.1	1.04

<b>1.2</b>	2.04	1.95	1.81	1.53	1.35
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(01A=>10Y)

DELAY [ns]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.241	0.301	0.416	0.867	1.53
<b>0.18</b>	0.264	0.323	0.438	0.885	1.55
<b>0.42</b>	0.336	0.391	0.5	0.938	1.6
<b>0.6</b>	0.391	0.448	0.555	0.984	1.64
<b>1.2</b>	0.56	0.623	0.74	1.16	1.79

POWER [pJ]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.396	0.395	0.397	0.386	0.386
<b>0.18</b>	0.383	0.388	0.392	0.4	0.402
<b>0.42</b>	0.212	0.241	0.281	0.341	0.369
<b>0.6</b>	0.0325	0.0787	0.143	0.258	0.317
<b>1.2</b>	0.668	0.586	0.455	0.163	0.0253

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(10A=>01Y)

DELAY [ns]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	0.134	0.173	0.254	0.574	1.05
<b>0.18</b>	0.136	0.178	0.258	0.579	1.06
<b>0.42</b>	0.127	0.176	0.263	0.583	1.06
<b>0.6</b>	0.113	0.168	0.262	0.588	1.06
<b>1.2</b>	0.0532	0.121	0.236	0.603	1.08

POWER [pJ]

<b>cl[pF]</b>	<b>0.025</b>	<b>0.05</b>	<b>0.1</b>	<b>0.3</b>	<b>0.6</b>
<b>ts[ns]</b>					
<b>0.06</b>	1.99	2	2	2.01	2.01
<b>0.18</b>	1.99	1.99	2	2	1.99
<b>0.42</b>	2.17	2.15	2.12	2.07	2.05
<b>0.6</b>	2.35	2.31	2.26	2.17	2.11

<b>1.2</b>	3.08	3	2.89	2.65	2.48
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