

# AND2X2(data type: typ)

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## Function

$Y=(A\&B)$

## Static Power:

When	Static Power [nW]
-	0.117

## Port:

Name	Direction
A	INPUT
B	INPUT
Y	OUTPUT

Name	Pin Capacitance [pF]	
	Rise	Fall
A	0.0216	0.0217
B	0.0214	0.0214

## Output Driving Strength

Name	Rise		Fall	
	Strength (sec/F)	Limit (pF)	Strength (sec/F)	Limit (pF)
Y	862	0.925	982	0.925

## Link To Path

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

(01A=>01Y)

DELAY [ns]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.165	0.212	0.299	0.646	1.16
0.18	0.18	0.228	0.314	0.659	1.18
0.42	0.193	0.241	0.33	0.677	1.19
0.6	0.201	0.248	0.336	0.682	1.2
1.2	0.19	0.24	0.332	0.682	1.2

POWER [pJ]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.55	0.545	0.551	0.547	0.55
0.18	0.664	0.652	0.643	0.639	0.638
0.42	0.967	0.934	0.914	0.888	0.883
0.6	1.23	1.18	1.14	1.11	1.1
1.2	2.15	2.06	1.98	1.88	1.84

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(10A=>10Y)

DELAY [ns]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.198	0.25	0.35	0.744	1.33
0.18	0.232	0.287	0.385	0.779	1.37
0.42	0.306	0.359	0.459	0.85	1.44
0.6	0.354	0.409	0.507	0.897	1.49
1.2	0.494	0.55	0.651	1.04	1.63

POWER [pJ]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.991	0.993	1	1	1
0.18	1.08	1.08	1.08	1.08	1.08
0.42	1.4	1.37	1.35	1.34	1.34
0.6	1.66	1.62	1.58	1.56	1.55
1.2	2.58	2.49	2.42	2.34	2.31

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(01B=>01Y)

DELAY [ns]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.166	0.211	0.3	0.645	1.16
0.18	0.167	0.215	0.303	0.648	1.17
0.42	0.166	0.214	0.303	0.647	1.16
0.6	0.157	0.206	0.296	0.641	1.16
1.2	0.105	0.157	0.251	0.606	1.12

POWER [pJ]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.522	0.51	0.519	0.53	0.534
0.18	0.637	0.63	0.637	0.631	0.624
0.42	0.99	0.952	0.929	0.906	0.9
0.6	1.28	1.23	1.19	1.15	1.14
1.2	2.31	2.22	2.13	2.03	1.99

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(10B=>10Y)

DELAY [ns]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	0.212	0.267	0.367	0.761	1.35
0.18	0.255	0.307	0.407	0.8	1.39
0.42	0.338	0.392	0.49	0.881	1.47
0.6	0.397	0.45	0.549	0.938	1.53
1.2	0.572	0.629	0.728	1.11	1.7

POWER [pJ]

cl[pF]	0.05	0.1	0.2	0.6	1.2
ts[ns]					
0.06	1.17	1.17	1.17	1.17	1.17
0.18	1.29	1.28	1.27	1.27	1.27
0.42	1.63	1.6	1.57	1.55	1.55
0.6	1.93	1.88	1.84	1.8	1.79
1.2	2.95	2.86	2.78	2.68	2.65

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