www.32x8.com

SUM of PRODUCTS

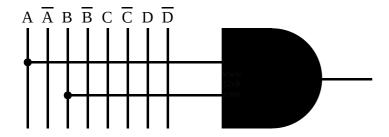### Map

	$\overline{C}.\overline{D}$	$\overline{C}.D$	$C.D$	$C.\overline{D}$
$\overline{A}.\overline{B}$	0	0	0	0
$\overline{A}.B$	0	0	0	0
$A.B$	x	1	x	x
$A.\overline{B}$	0	0	x	0

Map Layout

	$\overline{C}.\overline{D}$	$\overline{C}.D$	$C.D$	$C.\overline{D}$
$\overline{A}.\overline{B}$	0	1	3	2
$\overline{A}.B$	4	5	7	6
$A.B$	12	13	15	14
$A.\overline{B}$	8	9	11	10

Groups

(12,13,14,15)	A.B

y = AB

A $\overline{A}$ B $\overline{B}$ C $\overline{C}$ D $\overline{D}$

Truth Table

	A	B	C	D	Y
0	0	0	0	0	0
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	0

4	0	1	0	0	0
5	0	1	0	1	0
6	0	1	1	0	0
7	0	1	1	1	0
8	1	0	0	0	0
9	1	0	0	1	0
10	1	0	1	0	0
11	1	0	1	1	x
12	1	1	0	0	x
13	1	1	0	1	1
14	1	1	1	0	x
15	1	1	1	1	x

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