

www.32x8.com

SUM of PRODUCTS**Map**

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

Map Layout

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

(9,11)	$A.\overline{B}.D$
(12,13)	$A.B.\overline{C}$
(0)	$\overline{A}.\overline{B}.\overline{C}.\overline{D}$

$$y = AB'D + ABC' + A'B'C'D'$$

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

www.
32x8
.com

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

www.
32x8
.com

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

www.
32x8
.com

Truth Table

	A	B	C	D	Y
0	0	0	0	0	1
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	1
10	1	0	1	0	0
11	1	0	1	1	1
12	1	1	0	0	1
13	1	1	0	1	1
14	1	1	1	0	0
15	1	1	1	1	0

© 2014-2022