

SUM of PRODUCTS

Map

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

Map Layout

	$\overline{D.E.F}$	$\overline{D.E.F}$	$\overline{D.E.F}$	$\overline{D.E.F}$	$D.E.F$	$D.E.F$	$D.E.F$	$D.E.F$
$\overline{A.B.C}$	0	1	3	2	4	5	7	6
$\overline{A.B.C}$	8	9	11	10	12	13	15	14
$\overline{A.B.C}$	24	25	27	26	28	29	31	30
$\overline{A.B.C}$	16	17	19	18	20	21	23	22
$A.B.C$	32	33	35	34	36	37	39	38
$A.B.C$	40	41	43	42	44	45	47	46
$A.B.C$	56	57	59	58	60	61	63	62
$A.B.C$	48	49	51	50	52	53	55	54

Groups

(32,33,40,41,48,49,56,57)	$A.D.E$
(20,52)	$B.C.D.E.F$
(23,55)	$B.C.D.E.F$
(26,58)	$B.C.D.E.F$

$y = AD'E' + BC'DE'F' + BC'DEF + BCD'EF'$

A \overline{A} B \overline{B} C \overline{C} D \overline{D} E \overline{E} F \overline{F}

Addresses

www.
32x8
.com

A \overline{A} B \overline{B} C \overline{C} D \overline{D} E \overline{E} F \overline{F}

www.
32x8
.com

A \overline{A} B \overline{B} C \overline{C} D \overline{D} E \overline{E} F \overline{F}



www.
32x8
.com

A \overline{A} B \overline{B} C \overline{C} D \overline{D} E \overline{E} F \overline{F}

www.
32x8
.com

Truth Table

	A	B	C	D	E	F	Y
0	0	0	0	0	0	0	0
1	0	0	0	0	0	1	0
2	0	0	0	0	1	0	0
3	0	0	0	0	1	1	0
4	0	0	0	1	0	0	0
5	0	0	0	1	0	1	0

	6	0	0	0	1	1	0	0
	7	0	0	0	1	1	1	0
	8	0	0	1	0	0	0	0
	9	0	0	1	0	0	1	0
	10	0	0	1	0	1	0	0
	11	0	0	1	0	1	1	0
Addresses	12	0	0	1	1	0	0	0
	13	0	0	1	1	0	1	0
	14	0	0	1	1	1	0	0
	15	0	0	1	1	1	1	0
	16	0	1	0	0	0	0	0
	17	0	1	0	0	0	1	0
	18	0	1	0	0	1	0	0
	19	0	1	0	0	1	1	0
	20	0	1	0	1	0	0	1
	21	0	1	0	1	0	1	0
	22	0	1	0	1	1	0	0
	23	0	1	0	1	1	1	1
	24	0	1	1	0	0	0	0
	25	0	1	1	0	0	1	0
	26	0	1	1	0	1	0	1
	27	0	1	1	0	1	1	0
	28	0	1	1	1	0	0	0
	29	0	1	1	1	0	1	0
	30	0	1	1	1	1	0	0
	31	0	1	1	1	1	1	0
	32	1	0	0	0	0	0	1
	33	1	0	0	0	0	1	1
	34	1	0	0	0	1	0	0
	35	1	0	0	0	1	1	0
	36	1	0	0	1	0	0	0
	37	1	0	0	1	0	1	0
	38	1	0	0	1	1	0	0
	39	1	0	0	1	1	1	0
	40	1	0	1	0	0	0	x
	41	1	0	1	0	0	1	x

42	1	0	1	0	1	0	x
43	1	0	1	0	1	1	x
44	1	0	1	1	0	0	x
45	1	0	1	1	0	1	x
46	1	0	1	1	1	0	x
47	1	0	1	1	1	1	x
48	1	1	0	0	0	0	x
49	1	1	0	0	0	1	x
50	1	1	0	0	1	0	x
51	1	1	0	0	1	1	x
52	1	1	0	1	0	0	x
53	1	1	0	1	0	1	x
54	1	1	0	1	1	0	x
55	1	1	0	1	1	1	x
56	1	1	1	0	0	0	x
57	1	1	1	0	0	1	x
58	1	1	1	0	1	0	x
59	1	1	1	0	1	1	x
60	1	1	1	1	0	0	x
61	1	1	1	1	0	1	x
62	1	1	1	1	1	0	x
63	1	1	1	1	1	1	x

Addresses