

# Truth Table for DEMUX

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### 1x2 DEMUX

x1	S0	m1	m2
0	0	0	0
1	0	1	0
0	1	0	1
1	1	0	1

### 1x4 DEMUX

x1	S1	S0	m1	m2	m3	m4
0	0	0	0	0	0	0
1	0	0	1	0	0	0
0	0	1	0	0	0	0
1	0	1	0	1	1	1
0	1	0	0	0	0	0
1	1	0	0	0	1	0
0	1	1	0	0	0	0
1	1	1	0	0	0	1

### 1x8 DEMUX

x1	S2	S1	S0	m1	m2	m3	m4	m5	m6	m7	m8
0	x	x	x	0	0	0	0	0	0	0	0
1	0	0	0	1	0	0	0	0	0	0	0
1	0	0	1	0	1	0	0	0	0	0	0
1	0	1	0	0	0	1	0	0	0	0	0
1	0	1	1	0	0	0	1	0	0	0	0
1	1	0	0	0	0	0	0	1	0	0	0
1	1	0	1	0	0	0	0	0	1	0	0
1	1	1	0	0	0	0	0	0	0	1	0
1	1	1	1	0	0	0	0	0	0	0	1