

Output Voltages
^{MSB} a b c d ^{LSB}

0	0	0	0
0	0	0	1
0	0	1	1
0	1	1	1
1	1	1	1

A B C
^{MSB} 0 0 0 ^{LSB}

0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	0
1	0	0	0

$$A = abcd$$

$$B = \bar{a}\bar{b}cd + \bar{a}bcd$$

$$C = \bar{a}\bar{b}\bar{c}d + \bar{a}bcd$$

$$N=3$$

2^N converter