

Single Bit B logic

Logic is , $Y = (S0 \text{ AND } B) \text{ or } (S1 \text{ AND not}(B))$

Expected results:

Test	S0	S1	B	Y
A	0	0	1	0
B	0	0	0	0
C	1	0	1	1
D	1	0	0	0
E	0	1	1	0
F	0	1	0	1
G	1	1	1	1
F	1	1	0	1

Red = Result is always 0

Green = Result is B

Blue = Result is not B

Purple = Result is 1