

I2C-7SEG command chart

MSB LSB
7 6 5 4 3 2 1 0

0 1 dp | tbl[4:0]

write an Encoded character(tbl[4:0]) from home position

0 0 dp | tbl[4:0]

write an Encoded character(tbl[4:0]) w/ digit position auto increment

1 0 0 0 | digit[3:0]
raw 7segment data

write a custom character onto digit[3:0] (2-byte sequence)
raw 7segment data = { dp, g, f, e, d, c, b, a }

1 1 0 0 * * * *

read current position

1 1 0 1 * * * *

read current position datum

1 1 1 0 | position

read datum of digit[position] *1

1 0 0 1 | new_pos

set position to new_pos *1

1 0 1 1 | new_limit

set new position_limit, whose default value is NumberOfDigits

1 1 1 1 * * * *

read position_limit, whose default value is NumberOfDigits

*1 Param should not be beyond NumberOfDigits which is defined by the port condition of [PB4, PB3, PB2].

	0	1	2	3	4	5	6	7
0								
8								
16								
24								







