

## With External 72 (0x56=1) MHZ crystal:

I2C dump serializer

```
sdm845:/ # // serializer
sdm845:/ # i2cdump -f -y 2 0x1a
  0 1 2 3 4 5 6 7 8 9 a b c d e f
00: 34 00 00 9a 00 00 58 50 50 01 0f 00 07 35 35 03
10: 00 00 00 eb 00 00 fe 1e 7f 7f 01 00 04 00 01 00
20: 0b 00 25 00 00 00 00 01 20 20 a0 00 00 a5 5a
30: 00 09 00 05 0c 00 00 00 00 00 00 00 00 81 02
40: 10 90 00 00 00 00 00 00 00 00 00 00 00 00 ac
50: 16 00 00 02 00 01 02 00 00 d9 81 07 06 44 47
60: 22 02 00 00 10 00 00 00 00 00 00 00 00 20 00
70: 78 ba a0 00 00 00 78 ba a0 00 00 00 81 00
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00
a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00
c0: 00 00 82 00 28 08 00 00 40 00 00 00 02 ff 00
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00
e0: 00 00 82 00 28 08 00 00 00 00 00 00 02 00 00
f0: 5f 55 42 39 34 31 00 00 00 00 00 00 00 00
```

I2C dump de-serializer

```
// deserializer
sdm845:/ # i2cdump -f -y 2 0x2c
  0 1 2 3 4 5 6 7 8 9 a b c d e f
00: 58 04 00 f0 fe 9e 00 34 00 00 00 00 00 00 00
10: 00 00 00 00 00 00 00 00 00 01 00 00 03 13 53 05
20: 00 00 40 28 08 00 83 84 01 00 00 00 00 00 00
30: 00 00 90 25 01 00 00 9e 00 00 00 3f 20 e0 23 00
40: 43 03 03 00 60 88 00 00 0f 82 00 08 00 00 63 00
50: 03 10 00 01 80 00 00 00 00 3f 20 20 00 00 00
60: 00 00 00 00 10 00 00 00 00 00 00 00 00 01 00
70: 00 00 00 07 07 08 00 00 00 00 00 02 00 00 00
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
a0: 00 00 7d 00 00 00 00 00 00 00 00 00 00 00 00
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
c0: 00 00 00 00 00 00 00 c0 00 00 00 00 00 00 00
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
f0: 5f 55 42 39 34 38 00 00 00 00 00 00 00 00 00
sdm845:/ #
```

Lock signal (while touching the screen)



Observation:

1. Screen flickering
2. Touch working
3. No pulses in lock signal while touching screen

## With DSI (0x56=0) clock:

I2C dump serializer

I2c dump de-serializer

```
//serializer
sdm845:/ # i2cdump -f -y 2 0x1a
 0 1 2 3 4 5 6 7 8 9 a b c d e f
00: 34 00 00 9a 00 00 58 50 50 01 3f 00 07 35 35 03
10: 00 00 00 eb 00 00 fe 1e 7f 7f 01 00 04 00 01 00
20: 0b 00 25 00 00 00 00 00 01 20 20 b0 00 00 a5 5a
30: 00 09 00 05 0c 00 00 00 00 00 00 00 00 00 81 02
40: 10 90 00 00 00 00 00 00 00 00 00 00 00 00 ac
50: 16 00 00 00 02 00 00 02 00 00 d9 81 07 06 44 47
60: 22 02 00 00 10 00 00 00 00 00 00 00 00 02 20 00
70: 78 ba a0 00 00 00 00 78 ba a0 00 00 00 00 81 00
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
a0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
c0: 00 00 82 00 38 00 00 64 40 00 00 00 00 02 ff 00
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
e0: 00 00 82 00 28 08 00 00 00 00 00 00 00 02 00 00
f0: 5f 55 42 39 34 31 00 00 00 00 00 00 00 00 00 00
sdm845:/ #
```

```
sdm845:/ #
sdm845:/ # i2cdump -f -y 2 0x2c // deserializer
 0 1 2 3 4 5 6 7 8 9 a b c d e f
00: 58 04 00 f0 fe 9e 00 34 00 00 00 00 00 00 00 00
10: 00 00 00 00 00 00 00 00 00 01 00 00 03 13 53 05
20: 00 00 40 28 08 00 83 84 01 00 00 00 00 00 00 00
30: 00 00 90 25 01 00 00 9e 00 00 00 00 3f 20 e0 23 00
40: 43 03 03 00 60 88 00 00 0f 82 00 08 00 00 63 00
50: 03 10 00 01 80 00 00 00 00 00 00 3f 20 20 00 00 00
60: 00 00 00 00 10 00 00 00 00 00 00 00 00 00 00 01 00
70: 00 00 00 07 07 08 00 00 00 00 00 00 00 02 00 00 00
80: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
90: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
a0: 00 00 7d 00 00 00 00 00 00 00 00 00 00 00 00 00 00
b0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
c0: 00 00 00 00 00 00 00 00 00 00 00 c0 00 00 00 00 00
d0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
e0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
f0: 5f 55 42 39 34 38 00 00 00 00 00 00 00 00 00 00 00
sdm845:/ #
```

Lock signal while touching the screen



Observation:

1. Screen is stable , not flickering
2. Touch is not proper
3. pulses observed in lock signal while touching
4. Screen flickers when touch , else stable