

8-bits integer

| | | Unsigned | | Signed | |
|------|-----------|----------|------------|-------------|------------|
| | precision | min | max | min | max |
| Q8.0 | 1,000000 | 0,000000 | 255,000000 | -128,000000 | 127,000000 |
| Q7.1 | 0,500000 | 0,000000 | 127,500000 | -64,000000 | 63,500000 |
| Q6.2 | 0,250000 | 0,000000 | 63,750000 | -32,000000 | 31,750000 |
| Q5.3 | 0,125000 | 0,000000 | 31,875000 | -16,000000 | 15,875000 |
| Q4.4 | 0,062500 | 0,000000 | 15,937500 | -8,000000 | 7,937500 |
| Q3.5 | 0,031250 | 0,000000 | 7,968750 | -4,000000 | 3,968750 |
| Q2.6 | 0,015625 | 0,000000 | 3,984375 | -2,000000 | 1,984375 |
| Q1.7 | 0,007813 | 0,000000 | 1,992188 | -1,000000 | 0,992188 |
| Q0.8 | 0,003906 | 0,000000 | 0,996094 | -0,500000 | 0,496094 |

16-bits integer

| | | Unsigned | | Signed | |
|-------|-----------|----------|--------------|---------------|--------------|
| | precision | min | max | min | max |
| Q16.0 | 1,000000 | 0,000000 | 65535,000000 | -32768,000000 | 32767,000000 |
| Q15.1 | 0,500000 | 0,000000 | 32767,500000 | -16384,000000 | 16383,500000 |
| Q14.2 | 0,250000 | 0,000000 | 16383,750000 | -8192,000000 | 8191,750000 |
| Q13.3 | 0,125000 | 0,000000 | 8191,875000 | -4096,000000 | 4095,875000 |
| Q12.4 | 0,062500 | 0,000000 | 4095,937500 | -2048,000000 | 2047,937500 |
| Q11.5 | 0,031250 | 0,000000 | 2047,968750 | -1024,000000 | 1023,968750 |
| Q10.6 | 0,015625 | 0,000000 | 1023,984375 | -512,000000 | 511,984375 |
| Q9.7 | 0,007813 | 0,000000 | 511,992188 | -256,000000 | 255,992188 |
| Q8.8 | 0,003906 | 0,000000 | 255,996094 | -128,000000 | 127,996094 |
| Q7.9 | 0,001953 | 0,000000 | 127,998047 | -64,000000 | 63,998047 |
| Q6.10 | 0,000977 | 0,000000 | 63,999023 | -32,000000 | 31,999023 |
| Q5.11 | 0,000488 | 0,000000 | 31,999512 | -16,000000 | 15,999512 |
| Q4.12 | 0,000244 | 0,000000 | 15,999756 | -8,000000 | 7,999756 |
| Q3.13 | 0,000122 | 0,000000 | 7,999878 | -4,000000 | 3,999878 |
| Q2.14 | 0,000061 | 0,000000 | 3,999939 | -2,000000 | 1,999939 |
| Q1.15 | 0,000031 | 0,000000 | 1,999969 | -1,000000 | 0,999969 |
| Q0.16 | 0,000015 | 0,000000 | 0,999985 | -0,500000 | 0,499985 |