

Crystal Frequency Factors
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Freq kHz	Why	Factors				
		2	3	5	7	Other
32		8		3		
32.768	divide by 2E15 = 1 sec for watch	15				
40		6		4		
60	WWVB direct conversion revr?	5	1	4		
60.005	WWVB recr with 5 kHz IF?					
65.536	divide by 2E16 = 1 sec for watch	16				
75		3	1	5		
76.79		1		5		79 * 101
76.8		10	1	2		
76.81		1		5		7681
77.5	DCF direct conv rcvr?	2		4		31
77.503						17 * 47 * 97
96		8	1	3		
100	Real time clock or Marker gen for H.F	5		5		
Freq MHz						
1.008	UART clock	7	2	3	1	
1.2288	CDMA phones	14	1	2		Wiki: IS-95
1.544	Telcom T1 bit rate	6		3		193
1.8432	Old 75-Baud multiples	13	2	2		
	music	7		6		
2	Ab (415.305Hz)*301*16					
	Ab (415.305Hz)*301*16					
2.048	Telcom E1 bit rate	14		3		
	music					
	B (493.883Hz)*311*16					
	E (329.628Hz)*466*16					
	D (293.665Hz)*523*16					
2.4576	Baud rate gen: 300, 600, 1200 etc.	15	1	2		
3.152	Telcom DS1c					2^7 * 5^3 * 197
3.072	60 Hz generator	13	1	3		
3.2768	1.8432 * 16/9 ; 2.4576 * 4/3					
3.579545	Color burst for analog TV					5 MHz* 63 / 88
	1.8432 *2 ; 2.4576 * 3/2					
3.6864	3* 2.4576 baud rate gen	14	2	2		
3.932160	60 Hz * 2^16					
4	first gen microcontroller clock	8		6		
4.096	ISDN 1 kHz gen	15		3		
	middle C * 501 * 32					
4.194304	64 Hz * 2^16	22				
4.43361875	PAL TV system					
	1.8432 * 8/3 ; 2.4576 * 2					
4.9152	Bb (466.164Hz)*659*16	16	1	2		
5	Freq Standard	6		7		
5.0688	Old 110-Baud; 1.8432 * 11/4	11	2	2	0	11
	A (440.000Hz) Harmonic	8	2	1		440
6		7	1	6		

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Music Top Octave						
Div.	Note	Target				
734	C	8372.0	2		1	13 * 23
778	B	7902.1				
824	Bb	7458.6				
873	A	7040.0	7		1	11
925	Ab	6644.9				
980	G	6271.9				
1038	Gb	5919.9				
1100	F	5587.7				
1165	E	5274.0	1	2		293
1235	Eb	4978.0	1			19 * 131
1308	D	4698.6				
1386	Db	5919.91				
1.8432 * 10/3 ; 2.4576* 5/2						
	DTMF tones shifted for blue box		18		2	
6.5536	ICM 7045 digital stop watch					
			15	2	2	
7.3728	UART clock		9		6	
8	CAN bus		16		3	
8.192	ISDN 1 kHz gen		17	1	2	
9.8304	div by 2 for CDMA		7		7	
10	Frequency Standard		7		7	
10.05438	FEI FE-2163		1			7, 19, 31, 89, 137, 0.1
10.240	MC 145152 PLL @ 10 kHz chan		14		4	
11			6		6	11
11.0592	UART clock		14	3	2	
11.2896	for CD-ROM to get 44.1 kHz audio		10	2	2	2
12			8	1	6	
12.288	DAT for 48 kHz audio		15	1	3	
12.352	8X DS1		6	1	3	193
13.5	Digital Video PAL/NTSC		5	3	6	
14.31818	4 X color burst for digital TV					5 MHz*4* 63 / 88
14.7456			16	2	2	
15.36	PAL/NTSC		13	1	4	
16	2X CAN bus		10		6	
16.384	binary div to 1 kHz		17		3	
16.6666	div 8 = Telcom E1 bit rate		3		2	167 * 499
17.734475	PAL color subcarrier				2	11 * 64489
18	Digital Video sampling		7	2	6	
18.432	Baud rate gen: 300, 600, 1200 etc.		14	2	3	
19.608			18	1	2	
19.44	4X CDMA (400X TDMA)		7	5	4	
20	Telcom SDH/SONET		8		7	
22.1184	UART clock		15	3	2	
24	USB		9	1	6	
24.576	DAT for 48 kHz audio		16	1	3	
25	Ethernet by multiplication		6		8	
25.175	VGA		3		5	19 * 53

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27	Digital Video PAL/NTSC	6	3	6		
28.322	common NTSC & PAL sampling	4		3	2	17 * 17
28.63636	NTSC					5 MHz 8 * 63 / 88
29.498928	8 X color burst for digital TV	4	1			614561
30	CPU clock	7	1	7		
155.52	Telcom bit clock	10	5	4		
GHz						
1.420405752	21-cm line of hydrogen					Radio Astronomy
6.8346826	H maser					
359.72014	Rb87 hyperfine line					
22.482509	Rb / 19 MHz					
1.405157	RB / 19 / 16 MHz					
9.1926318	Cs133 hyperfine line					

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