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FREEBANDING FREQUENCY CHARTS

There are two main charts shown on this page:

- 1) Shows how the channels on a multi-mode CB can be converted to the UK CB channels - [click here](#)
- 2) Shows all the channels and frequencies that will be available on multi-mode CB radios - [click here](#)

Additionally, there are some charts specific to the Superstar radios - [click here](#)



Above: the popular Superstar 3900 multimode CB radio covering AM, FM & SSB

Multi-mode, multi band CB radios have more bands than the usual two standard bands (UK & CEPT) that are included on the majority of normal new CB rigs that are on the market. Some multi-mode radios do not have a frequency read-out that shows the operator what frequency is in use. In these cases a chart that shows what frequency is allocated to each channel on each band is a necessity.

Two such a charts are shown below.

Multi-mode rigs will often have between four and eight bands selected by a switch or switches. For example a rotary band selector switch may be marked A, B, C, D indicating four bands. Or there may be twelve bands in two banks of six. Each bank of six bands would be selected by a second 'hi / lo' switch. The rotary switch, in this case, might be marked G/A, H/B, I/C, J/D, K/E, L/F.

To use the charts below it is first necessary to determine which bank / band represents the "Mid Band" "Mid Block" (which is the CEPT / EU band in Europe and the standard CB band in the USA) and then, working either side of the mid-band, it will be possible to see which channel and frequency applies to any given setting. The first chart shown shows the channels used on the UK CB band, and how they relate to the channels on a multi-mode transceiver. The High Band is the next band above the Mid Band and the High-High Band is one further step up. For example Mid Band is position G on the Superstar SS-158EDX, but other radios will differ.

Important: It must be noted that the UK and New Zealand use non standard and unusual channel

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spacing which do not fit in with this plan. To use the UK and New Zealand bands on multi-mode rigs will take a little careful adjustment of the clarifier control in order to get on to the correct frequency!

Example: When wishing to select UK Channel 25 on a multi-mode rig: Channel 39 on the High Band would be selected which would give a frequency of 27.845 MHz, however the frequency of UK CB Channel 25 is 27.84125 MHz. The frequency must therefore be reduced using the Clarifier otherwise reception will be distorted and the transmission to other CB'ers will be off-frequency and also very distorted.

If you only want to use FM in the standard UK or New Zealand FM bands it may be better to purchase a standard CB rig, channelised for the UK or New Zealand, rather than a multi-mode rig.

How To Find The UK CB Channels On A Multi-Mode Radio

UK CB CHANNELS	High Band (H on SS158) (E on SS 3900)	High-High Band (I on SS158) (F on SS3900)	Actual UK Frequency Required MHz
1	16	-	27.60125
2	17	-	27.61125
3	18	-	27.62125
4	19	-	27.63125
5	19 +10 kHz (Alpha)	-	27.64125
6	20	-	27.65125
7	21	-	27.66125
8	22	-	27.67125
9 *	24 *	-	27.68125
10 *	25 *	-	27.69125
11 *	23 *	-	27.70125
12	26	-	27.71125
13	27	-	27.72125
14	28	-	27.73125
15	29	-	27.74125
16	30	-	27.75125
17	31	-	27.76125
18	32	-	27.77125
19	33	-	27.78125
20	34	-	27.79125
21	35	-	27.80125
22	36	-	27.81125
23	37	-	27.82125
24	38	-	27.83125
25	39	-	27.84125
26	40	-	27.85125
27	-	1	27.86125
28	-	2	27.87125
29	-	3	27.88125
30	-	3 +10 Khz (Alpha)	27.89125
31	-	4	27.90125
32	-	5	27.91125
33	-	6	27.92125
34	-	7	27.93125

35	-	7 +10 kHz (Alpha)	27.94125
36	-	8	27.95125
37	-	9	27.96125
38	-	10	27.97125
39	-	11	27.98125
40	-	11 +10 kHz (Alpha)	27.99125

Note 1: * Indicates out of sequence channels

Note 2: The +10kHz designation indicates that these channels require the use of the 10 kHz shift switch - These are known as the 'Alpha' channels.

Mid Block (E.U. / USA) Channels

The Mid Block (E.U. / C.E.P.T. / USA) Channels will be Band D on a Superstar 3900 and Band G on the SS158EDX / Superstar 3900 EFT

General Freebanding Frequency Chart

Mid Band (CEPT / EU) is Band D on the Superstar SS3900.

Mid Band (CEPT / EU) is Band G on the Superstar SS-158EDX / Superstar 3900 EFT

Other radios may differ.

Band				A	B	C							
Band			A	B	C	D	E						
Band		A	B	C	D	E	F	G	H	I	J		
Band	A	B	C	D	E	F	G	H	I	J	K		
CH.	Ultra-Low	Super-Low	Low-Low	Low	"Mid" (CEPT) (USA)	High	High-High	Super-High	Ultra-High			UK (27/81)	NZ
01	25.165	25.615	26.065	26.515	26.965	27.415	27.865	28.315	28.765	29.215	29.665	27.60125	26.330
02	25.175	25.625	26.075	26.525	26.975	27.425	27.875	28.325	28.775	29.225	29.675	27.61125	26.340
03	25.185	25.635	26.085	26.535	26.985	27.435	27.885	28.335	28.785	29.235	29.685	27.62125	26.350
3a	25.195	25.645	26.095	26.545	26.995	27.445	27.885	28.345	28.795	29.245	29.695	-	26.360
04	25.205	25.655	26.105	26.555	27.005	27.455	27.905	28.355	28.805	29.255	29.705	27.63125	26.370
05	25.215	25.665	26.115	26.565	27.015	27.465	27.915	28.365	28.815	29.265	29.715	27.64125	26.380
06	25.225	25.675	26.125	26.575	27.025	27.475	27.925	28.375	28.825	29.275	29.725	27.65125	26.390
07	25.235	25.685	26.135	26.585	27.035	27.485	27.935	28.385	28.835	29.285	29.735	27.66125	26.400
7a	25.245	25.695	26.145	26.595	27.045	27.495	27.945	28.395	28.845	29.295	29.745	-	26.410
08	25.255	25.705	26.155	26.605	27.055	27.505	27.955	28.405	28.855	29.305	29.755	27.67125	26.420
09	25.265	25.715	26.165	26.615	27.065	27.515	27.965	28.415	28.865	29.315	29.765	27.68125	26.430
10	25.275	25.725	26.175	26.625	27.075	27.525	27.975	28.425	28.875	29.325	29.775	27.69125	26.440
11	25.285	25.735	26.185	26.635	27.085	27.535	27.985	28.435	28.885	29.335	29.785	27.70125	26.450
11a	25.295	25.745	26.195	26.645	27.095	27.545	27.995	28.445	28.895	29.345	29.795	-	26.460
12	25.305	25.755	26.205	26.655	27.105	27.555	28.005	28.455	28.905	29.355	29.805	27.71125	26.470
13	25.315	25.765	26.215	26.665	27.115	27.565	28.015	28.465	28.915	29.365	29.815	27.72125	26.480
14	25.325	25.775	26.225	26.675	27.125	27.575	28.025	28.475	28.925	29.375	29.825	27.73125	26.490
15	25.335	25.785	26.235	26.685	27.135	27.585	28.035	28.485	28.935	29.385	29.835	27.74125	26.500
15a	25.345	25.795	26.245	26.695	27.145	27.595	28.045	28.495	28.945	29.395	29.845	-	26.510
16	25.355	25.805	26.255	26.705	27.155	27.605	28.055	28.505	28.955	29.405	29.855	27.75125	26.520
17	25.365	25.815	26.265	26.715	27.165	27.615	28.065	28.515	28.965	29.415	29.865	27.76125	26.530
18	25.375	25.825	26.275	26.725	27.175	27.625	28.075	28.525	28.975	29.425	29.875	27.77125	26.540
19	25.385	25.835	26.285	26.735	27.185	27.635	28.085	28.535	28.985	29.435	29.885	27.78125	26.550
19a	25.395	25.845	26.295	26.745	27.195	27.645	28.095	28.545	28.995	29.445	29.895	-	26.560
20	25.405	25.855	26.305	26.755	27.205	27.655	28.105	28.555	29.005	29.455	29.905	27.79125	26.570
21	25.415	25.865	26.315	26.765	27.215	27.665	28.115	28.565	29.015	29.465	29.915	27.80125	26.580
22	25.425	25.875	26.325	26.775	27.225	27.675	28.125	28.575	29.025	29.475	29.925	27.81125	26.590

23	25.455	25.905	26.355	26.805	27.255	27.705	28.155	28.605	29.055	29.505	29.955	27.82125	26.620
24	25.435	25.885	26.335	26.785	27.235	27.685	28.135	28.585	29.035	29.485	29.935	27.83125	26.600
25	25.445	25.895	26.345	26.795	27.245	27.695	28.145	28.595	29.045	29.495	29.945	27.84125	26.610
26	25.465	25.915	26.365	26.815	27.265	27.715	28.165	28.615	29.065	29.515	29.965	27.85125	26.630
27	25.475	25.925	26.375	26.825	27.275	27.725	28.175	28.625	29.075	29.525	29.975	27.86125	26.640
28	25.485	25.935	26.385	26.835	27.285	27.735	28.185	28.635	29.085	29.535	29.985	27.87125	26.650
29	25.495	25.945	26.395	26.845	27.295	27.745	28.195	28.645	29.095	29.545	29.995	27.88125	26.660
30	25.505	25.955	26.405	26.855	27.305	27.755	28.205	28.655	29.105	29.555	30.005	27.89125	26.670
31	25.515	25.965	26.415	26.865	27.315	27.765	28.215	28.665	29.115	29.565	30.015	27.90125	26.680
32	25.525	25.975	26.425	26.875	27.325	27.775	28.225	28.675	29.125	29.575	30.025	27.91125	26.690
33	25.535	25.985	26.435	26.885	27.335	27.785	28.235	28.685	29.135	29.585	30.035	27.92125	26.700
34	25.545	25.995	26.445	26.895	27.345	27.795	28.245	28.695	29.145	29.595	30.045	27.93125	26.710
35	25.555	26.005	26.455	26.905	27.355	27.805	28.255	28.705	29.155	29.605	30.055	27.94125	26.720
36	25.565	26.015	26.465	26.915	27.365	27.815	28.265	28.715	29.165	29.615	30.065	27.95125	26.730
37	25.575	26.025	26.475	26.925	27.375	27.825	28.275	28.725	29.175	29.625	30.075	27.96125	26.740
38	25.585	26.035	26.485	26.935	27.385	27.835	28.285	28.735	29.185	29.635	30.085	27.97125	26.750
39	25.595	26.045	26.495	26.945	27.395	27.845	28.295	28.745	29.195	29.645	30.095	27.98125	26.760
40	25.605	26.055	26.505	26.955	27.405	27.855	28.305	28.755	29.205	29.655	30.105	27.99125	26.770

Table from Defprom's Radio Mods band chart: <http://www.radiomods.co.nz/freq.html>

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Superstar 3900 UK CB Channel Chart				
UK Channel	Multimode equivalent		UK Channel	Multimode equivalent
1	E 16		21	E 35
2	E 17		22	E 36
3	E 18		23	E 37
4	E 19		24	E 38
5	E 19 + 10 kHz		25	E 39
6	E 20		26	E 40
7	E 21		27	F 1
8	E 22		28	F 2
9 *	E 24 *		29	F 3
10*	E 25 *		30	F 3 + 10 kHz
11*	E 23 *		31	F 4
12	E 26		32	F 5
13	E 27		33	F 6
14	E 28		34	F 7
15	E 29		35	F 7 + 10 kHz
16	E 30		36	F 8
17	E 31		37	F 9
18	E 32		38	F 10
19	E 33		39	F 11
20	E 34		40	F 11 + 10 kHz
[* Out of sequence channels] E.U. Band (Mid Block) = Band D BigCat www.mds975.co.uk				

Superstar 3900 Frequency Chart

Band	Freq	Band	Freq		Band	Freq	Band	Freq
D		D			E		E	
1	26.965	21	27.215		1	27.415	21	27.665
2	26.975	22	27.225		2	27.425	22	27.675
3(a)	26.985	23	27.235		3(a)	27.435	23	27.705
4	27.005	24	27.245		4	27.455	24	27.685
5	27.015	25	27.255		5	27.465	25	27.695
6	26.025	26	27.265		6	27.475	26	27.715
7(a)	26.035	27	27.275		7(a)	27.485	27	27.725
8	27.055	28	27.285		8	27.505	28	27.735
9	27.065	29	27.295		9	27.515	29	27.745
10	27.075	30	27.305		10	27.525	30	27.755
11(a)	27.085	31	27.315		11(a)	27.535	31	27.765
12	27.105	32	27.325		12	27.555	32	27.775
13	27.115	33	27.335		13	27.565	33	27.785
14	27.125	34	27.345		14	27.575	34	27.795
15(a)	27.135	35	27.355		15(a)	27.585	35	27.805
16	27.155	36	27.365		16	27.605	36	27.815
17	27.165	37	27.375		17	27.615	37	27.825
18	27.175	38	27.385		18	27.625	38	27.835
19(a)	27.185	39	27.395		19(a)	27.635	39	27.845
20	27.205	40	27.405		20	27.655	40	27.855

(a) = possibility of using +10kHz 'alpha' channels

www.mds975.co.uk

Superstar SS158EDX UK CB Channel Chart

UK	Multimode		UK	Multimode
Channel	equivalent		Channel	equivalent
1	H 16		21	H 35
2	H 17		22	H 36
3	H 18		23	H 37
4	H 19		24	H 38
5	H 19 + 10 kHz		25	H 39
6	H 20		26	H 40
7	H 21		27	I 1
8	H 22		28	I 2
9 *	H 24 *		29	I 3
10 *	H 25 *		30	I 3 + 10 kHz
11 *	H 23 *		31	I 4
12	H 26		32	I 5
13	H 27		33	I 6
14	H 28		34	I 7
15	H 29		35	I 7 + 10 kHz
16	H 30		36	I 8
17	H 31		37	I 9
18	H 32		38	I 10
19	H 33		39	I 11
20	H 34		40	I 11 + 10 kHz

[* Out of sequence channels]

E.U. Band (Mid Block) = Band G

www.mds975.co.uk

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Ranger Superstar 3900



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