National Semiconductor
Digital Voice Selection Software
(DTSW-500)

This document contains a list of all the vocabulary numbers, letters, words and sounds etc that were included with the National Semiconductor Digitalker Digital Voice Selection Software program suite.

There are over 600 to choose from when creating your own custom ROMs. As far as know, there are no other vocabulary libraries available.

I have split the complete library of words into 5 ROMs.

Each ROM is a maximum of 16Kbytes in size. Attempting to exceed 16Kbytes results in errors being reported.

The 5 ROMs files are all in Intel-HEX format and named:

- DVSSROM1.HEX
- DVSSROM2.HEX
- DVSSROM3.HEX
- DVSSROM4.HEX
- DVSSROM5.HEX

There is a 6th ROM called DVSSROMS.HEX which is all 5 ROMs merged into 1 file which can be programmed into a larger flash chip if your hardware supports one big chip for the vocabulary.

What follows are the lists of vocabulary words in each ROM along with their respective "addresses". If you want Digitalker to say the word "emergency" from ROM #2, then you need to tell the Digitalker chip to speak word 53.

If you have combined all the ROMs and programmed 1 big ROM, then you will need to select the required ROM using whatever technique your hardware uses.

Created by @markd833 (forum.arduino.cc) on 13-DEC-2023

DVSSROM #1 INDEX

DVSS ROM#2 INDEX

DVSS ROM#3 INDEX

1	inches	49	micro-.rp	97	optical.m
2	incorporated	50	mile	98	or
3	incorrect	51	milli-.mp	99	other.s
4	increase.r	52	millimeter	100	out
5	insert.r	53	million	101	over
6	interface	54	minus	102	over-range
7	intruder	55	minute	103	p
8	invalid.fa	56	miss	104	pair
9	is.r	57	missing	105	pan
10	it	58	model	106	parenthesis
11	j	59	modem	107	pass
12	january.r	60	module	108	pass.r
13	july.r	61	monday	109	passed
14	june.r	62	monitor	110	past
15	just.s	63	more	111	per.r
16	k	64	move.m	112	per-.sp
17	key	65	move.r	113	percent
18	keypad	66	my.m	114	phone.r
19	kilo-.fp	67	n	115	phone-number
20	l	68	nano-.rp	116	pico-.rp
21	leave.s	69	near	117	place
22	left	70	need	118	place.s
23	less	71	next	119	play
24	lesser	72	next.m	120	please
25	level	73	night	121	please.p
26	lie	74	nine	122	plus
27	light	75	nineteen	123	pm
28	lime	76	ninety	124	point
29	limit	77	no.m	125	point.r
30	line	78	normal	126	pound
31	link	79	north	127	power
32	listen.r	80	not	128	present
33	load	81	notice		
34	lock	82	november.r		
35	locked	83	number		
36	loop	84	o		
37	looped	85	o'clock		
38	low	86	october.r		
39	lower	87	of		
40	m	88	off		
41	march.r	89	ohm		
42	mark	90	okay		
43	may.r	91	on		
44	meg-.rp	92	one		
45	mega-.rp	93	onward		
46	message	94	open		
47	message.r	95	operator		
48	meter	96	optical		

DVSS ROM#4 INDEX

DVSS ROM#5 INDEX

#		#		#	
1	thermal	49	type	97	working
2	thermal.m	50	u	98	x
3	third	51	un-.rp1	99	y
4	thirteen	52	un-.rp2	100	yellow
5	thirty	53	unable	101	yes
6	this.m	54	unattended	102	yes.m
7	thousand	55	unit	103	you
8	three	56	unknown	104	your.r
9	thursday	57	unlock	105	z
10	tide	58	unlocked	106	zero
11	time.r	59	untrue.r	107	zone
12	tip	60	up		
13	today.r	61	use		
14	today's.r	62	use.r		
15	tone	63	used		
16	tone1000	64	utility		
17	tone1000.mt	65	v		
18	tone10000	66	voice		
19	tone10000.mt	67	volt		
20	tone12500	68	voltage		
21	tone12500.mt	69	vote		
22	tone200	70	w		
23	tone200.mt	71	wait		
24	tone2000	72	wait.r		
25	tone2000.mt	73	waiting		
26	tone400	74	waiting.s		
27	tone400.mt	75	wake		
28	tone5000	76	wake-up		
29	tone5000.mt	77	warm		
30	tone80	78	warning		
31	tone80.mt	79	was.s		
32	tone800	80	water		
33	tone800.mt	81	watt		
34	total	82	wave		
35	touch.r	83	wear		
36	tracking.s	84	wednesday		
37	traffic	85	week.s		
38	transfer.m	86	welcome		
39	trip	87	west		
40	true.r	88	what.r		
41	trunk	89	will.r		
42	try	90	wind.fnq		
43	tuesday	91	wind.rvg		
44	turn	92	wish.r		
45	turn.s	93	with.r		
46	twelve	94	within.r		
47	twenty	95	word		
48	two	96	work		

DVSS ROM Build Reports

There are the actual build reports for each of the 5 ROMs as reported by the DVSS software.

DVSSROM #1

```
  Message pointers:   144 (288 bytes)
     Instructions:  1082 (3246 bytes)
  Speech data used: 12694 bytes
Speech data reused: 26439 bytes

  Total bytes used: 16228 (100%)
  Total bytes left:   156 (0%)
```

DVSSROM #2

```
  Message pointers:   133 (266 bytes)
     Instructions:  1076 (3228 bytes)
  Speech data used: 12783 bytes
Speech data reused: 25439 bytes

  Total bytes used: 16277 (100%)
  Total bytes left:   107 (0%)
```

DVSSROM #3

```
  Message pointers:   129 (258 bytes)
     Instructions:   972 (2916 bytes)
  Speech data used: 13156 bytes
Speech data reused: 19520 bytes

  Total bytes used: 16330 (100%)
  Total bytes left:    54 (0%)
```

DVSSROM #4

```
  Message pointers:   140 (280 bytes)
     Instructions:  1281 (3843 bytes)
  Speech data used: 12154 bytes
Speech data reused: 36352 bytes

  Total bytes used: 16277 (100%)
  Total bytes left:   107 (0%)
```

DVSSROM #5

```
  Message pointers:   108 (216 bytes)
     Instructions:   787 (2361 bytes)
  Speech data used:  9988 bytes
Speech data reused: 15893 bytes

  Total bytes used: 12565 (77%)
  Total bytes left:  3819 (23%)
```