



SIGNALARITY MODEM ORCHESTRA RESENTS:

# MUSIC FOR AT MUSICIANS

JULY 1, 2015

**Command Reference and Translation Table**

## Music for AT Musicians – Performance Command Summary

**AT** Command prefix

**L0** Low speaker volume

**L1** Low speaker volume

**L2** Medium speaker volume

**L3** High speaker volume

**M0** Speaker always off

**M1** Speaker on until carrier present

**M2** Speaker always on

**M3** Speaker off during dialing; speaker on until carrier present

**Z0** Reset modem and recalls user profile 0

**Z1** Reset modem and recalls user profile 1

**+VTS** Send Voice Tone(s)

This command causes the modem to send DTMF digit or hookflash tones with the duration specified by **+VTD**, to send DTMF digit or hookflash tones with duration specified by this command, or to send single or dual tone frequencies with duration specified with this command.

Syntax

**+VTS=<string>**

Defined Values

**<string>** The tone generation consists of elements in a list where each element is separated by a comma.

Each element can be:

(1) A single character which the modem interprets as a DTMF digit (0 - 9, #, \*, or A-D) or hookflash (!), with a duration given by the **+VTD** command.

(2) A 3-element string enclosed in square brackets, "**[freq1,freq2,dur]**", which the modem interprets as a general dual tone and duration selection, or

(3) A 2-element string enclosed in curly braces, "**{X,dur}**", which the modem interprets as a DTMFdigit (0 - 9, #, \*, or A-D), or hookflash (!) with a duration (dur) different than that given by the **+VTD** command,

Missing subparameters assume the default value. Unspecified values always default to zero for frequencies, DTMF \* for DTMF tones, and **+VTD** for duration. The omission of commas (and associated subparameters) are valid.

Character	Number	Mapped Tone (200-3000 Hz)	Description
h	104	862	Lowercase h
i	105	832	Lowercase i
j	106	802	Lowercase j
k	107	772	Lowercase k
l	108	741	Lowercase l
m	109	711	Lowercase m
n	110	681	Lowercase n
o	111	651	Lowercase o
p	112	621	Lowercase p
q	113	591	Lowercase q
r	114	561	Lowercase r
s	115	531	Lowercase s
t	116	501	Lowercase t
u	117	470	Lowercase u
v	118	440	Lowercase v
w	119	410	Lowercase w
x	120	380	Lowercase x
y	121	350	Lowercase y
z	122	320	Lowercase z
{	123	290	Opening brace
	124	260	Vertical bar
}	125	230	Closing brace
~	126	200	Equivalency sign - tilde

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## SIGNAL TRANSLATION TABLE

Character	Number	Mapped Tone (200-3000 Hz)	Description
!	33	3000	Exclamation mark
"	34	2969	Double quotes (or speech marks)
#	35	2939	Number
\$	36	2909	Dollar
%	37	2879	Procenttecken
&	38	2849	Ampersand
'	39	2819	Single quote
(	40	2789	Open parenthesis (or open bracket)
)	41	2759	Close parenthesis (or close bracket)
*	42	2729	Asterisk
+	43	2698	Plus
,	44	2668	Comma
-	45	2638	Hyphen
.	46	2608	Period, dot or full stop
/	47	2578	Slash or divide
0	48	2548	Zero
1	49	2518	One
2	50	2488	Two
3	51	2458	Three
4	52	2427	Four
5	53	2397	Five
6	54	2367	Six
7	55	2337	Seven
8	56	2307	Eight
9	57	2277	Nine
:	58	2247	Colon
;	59	2217	Semicolon
<	60	2187	Less than (or open angled bracket)
=	61	2156	Equals
>	62	2126	Greater than (or close angled bracket)

Character	Number	Mapped Tone (200-3000 Hz)	Description
?	63	2096	Question mark
@	64	2066	At symbol
A	65	2036	Uppercase A
B	66	2006	Uppercase B
C	67	1976	Uppercase C
D	68	1946	Uppercase D
E	69	1916	Uppercase E
F	70	1886	Uppercase F
G	71	1855	Uppercase G
H	72	1825	Uppercase H
I	73	1795	Uppercase I
J	74	1765	Uppercase J
K	75	1735	Uppercase K
L	76	1705	Uppercase L
M	77	1675	Uppercase M
N	78	1645	Uppercase N
O	79	1615	Uppercase O
P	80	1584	Uppercase P
Q	81	1554	Uppercase Q
R	82	1524	Uppercase R
S	83	1494	Uppercase S
T	84	1464	Uppercase T
U	85	1434	Uppercase U
V	86	1404	Uppercase V
W	87	1374	Uppercase W
X	88	1344	Uppercase X
Y	89	1313	Uppercase Y
Z	90	1283	Uppercase Z
[	91	1253	Opening bracket
\	92	1223	Backslash
]	93	1193	Closing bracket
^	94	1163	Caret - circumflex
_	95	1133	Underscore
`	96	1103	Grave accent
a	97	1073	Lowercase a
b	98	1043	Lowercase b
c	99	1012	Lowercase c
d	100	982	Lowercase d
e	101	952	Lowercase e
f	102	922	Lowercase f
g	103	892	Lowercase g