

eSH Series DAC volume control Application Notes

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Supported Chips : **eSH all bodies**

Applicable Software : **eSH IDE, version 1.2**



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1. eSH DAC volume control flow

1.1. 使用eSH volume control

(instruction “mov vol,a”/”mov a,vol”)注意事項:

- 一般 eSH voice使用tradition DAC play, 為避免voice初始與結尾產生“Bo”, 通常需接上head與tail waveform, 讓voice前後smooth, 此 head/tail waveform 在 **power down 前或 power on 後第一句 voice 執行時, 一定要設成volume=7.**
- 若此時waveform volume $\neq 7$ 為避免因為電流切換(volume change)造成“Bo” 建議使用底下方式切換volume:
- 使用mark來控制volume change
尋找聲音比較大的區間, 在此區域加上mark, 藉著play時, polling mark來改變volume.
- 同時每個volume切換最好是volume間距為1. (即7→6 or 6→7); 若間距不為1時, 最好能有順序的切換成volume=7(如5→7; 建議改成5→6→7)

1.2. 參考程式如下:

```
; If voice volume=5
MOV     VOL,#5
Play2   MALE.wav
playvo:
MOV     a,mark
CAJE    #5,vol5
CAJE    #6,vol6
CAJE    #7,vol7
playvo1:
CJP     playvo
PLAYTAIL
END
vol5:
MOV     VOL,#5
JMP     playvo1
vol6:
MOV     VOL,#6
JMP     playvo1
vol7:
MOV     VOL,#7
JMP     playvo1
```

