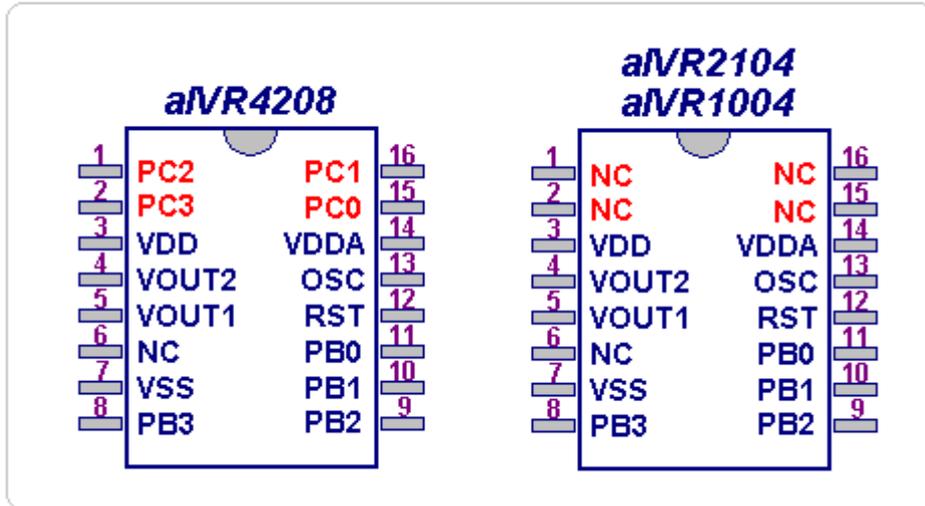# aIVR_DB16 --- Demo Board User Manual

- **PART NO. :   aIVR_DB16**

- **PCB size :   68x 63 mm**

- **PCB No. :   8198**

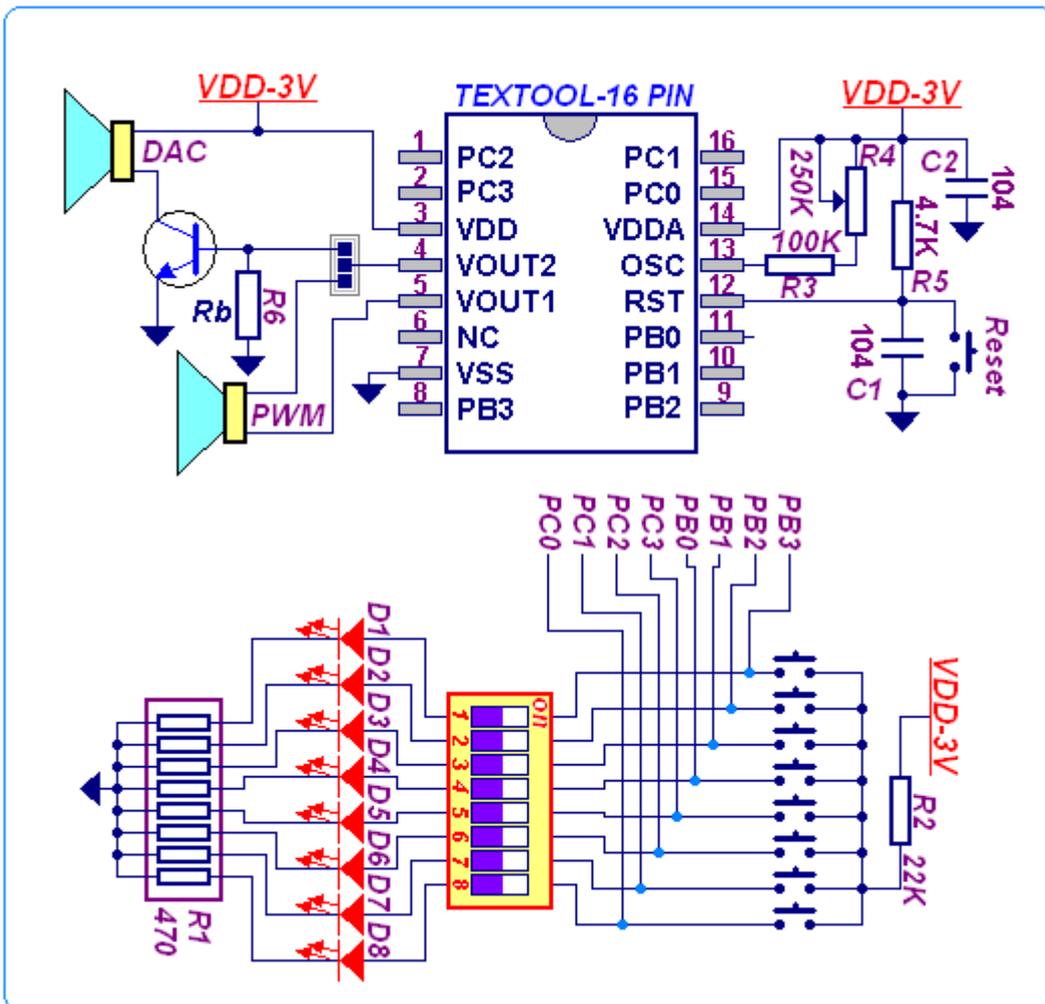- **For Body :   aIVR4208 / aIVR2104 / aIVR1004**

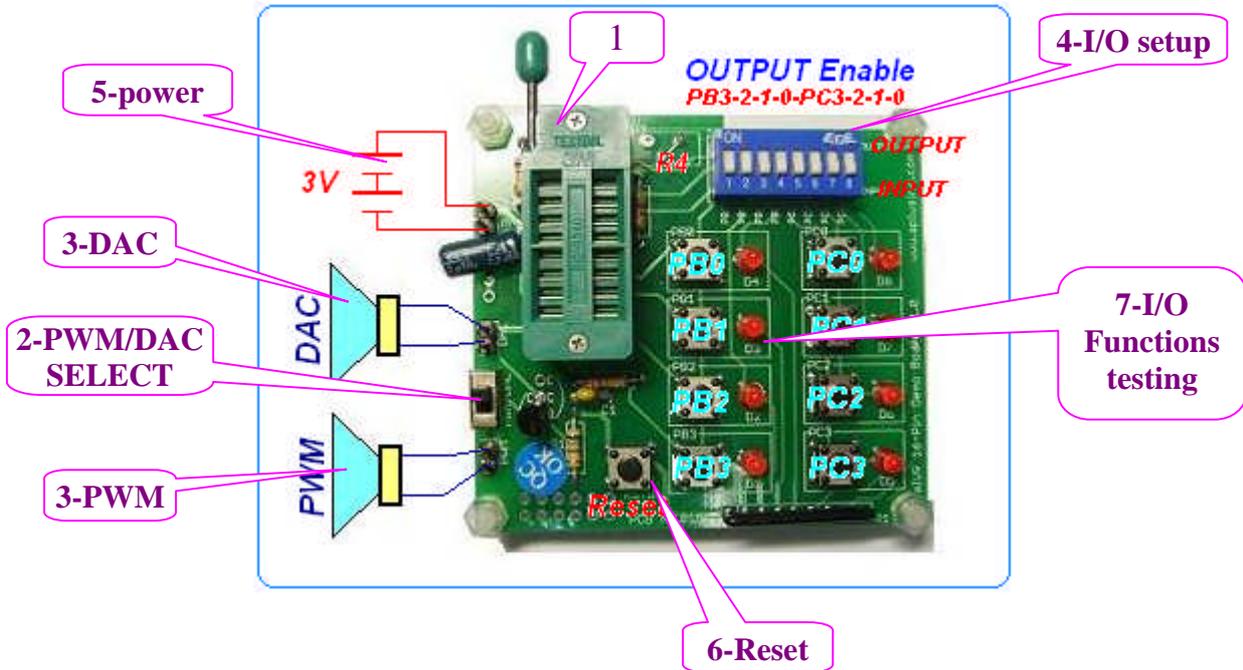## aIVRxxx Series IC : Built in 8 bits CPU + VOICE OTP

Part No.	Durations	I/O	Memory size	VCC	PIN
aIVR4208	**42"**	**8** **[PB0 ~ PB3]** **[PC0 ~ PC3]**	**1M bits**	**2.2~3.6V**	**16**
aIVR2104	**21"**	**4** **[PB0 ~ PB3]**	**512K bits**	**2.2~3.6V**	**16**
aIVR1004	**10"**	**4** **[PB0~PB3]**	**256K bits**	**2.2~3.6V**	**16**

aIVR4208		aIVR2104 aIVR1004		aIVR2104 aIVR1004		aIVR4208	
PIN	**Name**	**PIN**	**Name**	**PIN**	**Name**	**PIN**	**Name**
1	**PC2**	**1**	**NC**	9	NC	9	PC1
2	**PC3**	**2**	**NC**	10	NC	10	PC0
3	**VDD**	**3**	**VDD**	11	VddA	11	VddA
4	**Vout2**	**4**	**Vout2**	12	OSC	12	OSC
5	**Vout1**	**5**	**Vout1**	13	RSTB	13	RSTB
6	**NC**	**6**	**NC**	14	PB0	14	PB0
7	**VSS**	**7**	**VSS**	15	PB1	15	PB1
8	**PB3**	**8**	**PB3**	16	PB2	16	PB2

aIVR4208

Pin	Name		Name	Pin
1	PC2		PC1	16
2	PC3		PC0	15
3	VDD		VDDA	14
4	VOUT2		OSC	13
5	VOUT1		RST	12
6	NC		PB0	11
7	VSS		PB1	10
8	PB3		PB2	9

aIVR2104 aIVR1004

Pin	Name		Name	Pin
1	NC		NC	16
2	NC		NC	15
3	VDD		VDDA	14
4	VOUT2		OSC	13
5	VOUT1		RST	12
6	NC		PB0	11
7	VSS		PB1	10
8	PB3		PB2	9

Demo Board Circuit :

1. Push the [aIVR4208/2104/1004 IC] to the TEXTOOL SOCKET

2. PWM or DAC selection

3. connected speaker to [PWM] or [DAC] pin

4. I/O setup :

   PB3-PB2-PB1-PB0-PC3-PC2-PC1-PC0 I/O setup by DIP SW-8

   Output : please set to [on]

   Input : please set to [off]

5. connected battery 3V & power on

6. push the [Reset] key for IC Reset

7. aIVRxxx series IC functions testing ……………