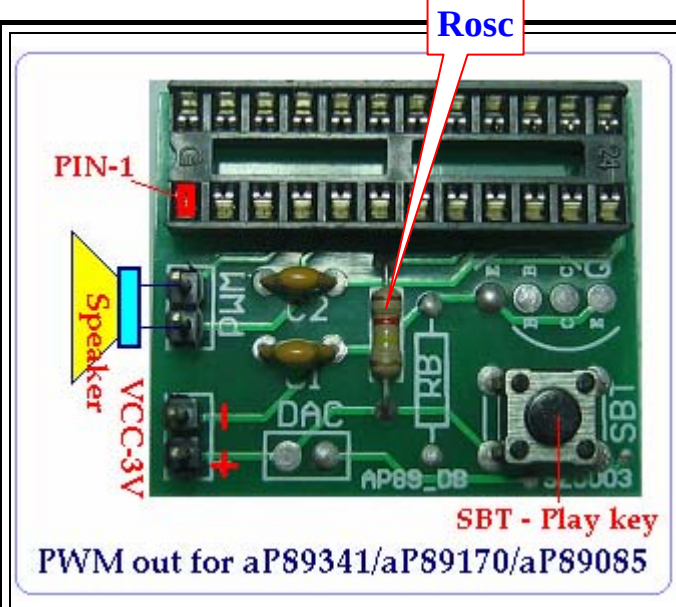


# DB24P --- VOICE OTP DEMO BOARD USER MANUAL

For aP89341 ( 341" ) / aP89170 ( 170" ) / aP89085 ( 85" )

|         | Durations | PHRASE   |              |            | TG Pin | PDIP | SOP | DIE | VCC        |
|---------|-----------|----------|--------------|------------|--------|------|-----|-----|------------|
|         |           | Key mode | CPU parallel | CPU serial |        |      |     |     |            |
| aP89341 | 341"      | 32       | 254          | 254        | 8      | 24   | 28  | YES | 2.2 ~ 3.6V |
| aP89170 | 170"      | 32       | 254          | 254        | 8      | 24   | 28  | YES | 2.2 ~ 3.6V |
| aP89085 | 85"       | 32       | 254          | 254        | 8      | 24   | 28  | YES | 2.2 ~ 3.6V |



1. Part no. : **AP89XS-DBP**
2. PCB SIZE : 33 x 28 mm
3. PCB NO. : SZ5003
4. VCC = **3V**
5. Only **PWM**
6. SBT PIN : One key sequential trigger 1 ~ 254(max.)sections

PWM out for aP89341/aP89170/aP89085

| Sampling rate | Rosc | Sampling rate | Rosc | Sampling rate | Rosc |
|---------------|------|---------------|------|---------------|------|
| 4.9 K Hz      | 300K | 7.46 K Hz     | 220K | 11 K Hz       | 140K |
| 5.26 K Hz     | 290K | 7.70 K Hz     | 210K | 11.76 K Hz    | 130K |
| 5.88 K Hz     | 280K | 8.06 K Hz     | 200K | 12.5 K Hz     | 120K |
| 6.09 K Hz     | 270K | 8.47 K Hz     | 190K | 13.33 K Hz    | 110K |
| 6.33 K Hz     | 260K | 8.93 K Hz     | 180K | 14.51 K Hz    | 100K |
| 6.67 K Hz     | 250K | 9.26 K Hz     | 170K | 15.63 K Hz    | 91K  |
| 6.85 K Hz     | 240K | 9.80 K Hz     | 160K | 16.95 K Hz    | 82K  |
| 7.14 K Hz     | 230K | 10.42 K Hz    | 150K | 18.18 K Hz    | 75K  |

\*\* The Table is only for reference.

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