



# **4-Bit Micro-Controller**

## **TM87 & TM89 series**

### **Points for attention in using OTP IC program**

## **Application Note**

**Tenx reserves the right to change or  
discontinue this product without notice.**

**tenx technology inc.**

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**PRODUCT NAME**

TM87 and TM89 OTP series

**TITLE**

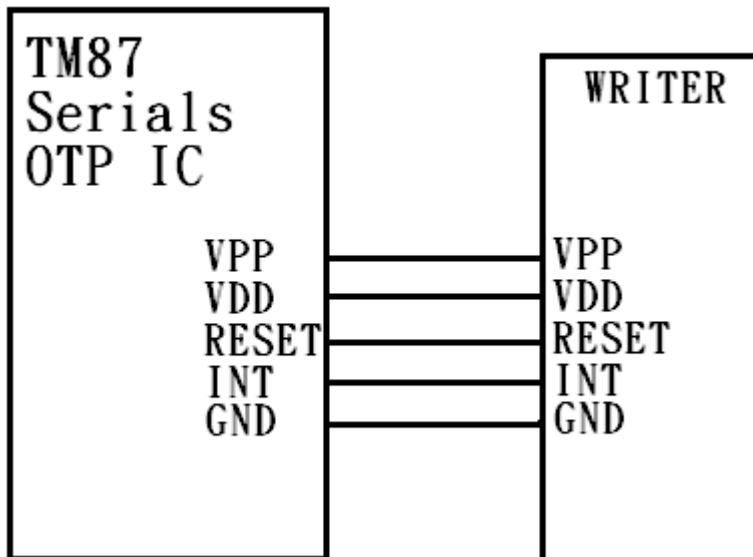
Points for attention in using TM87 and TM89 series OTP IC Program

**APPLICATION NOTE**

**1. TM87 series OTP IC**

Connecting to any components or short-circuit to other IO pins is strictly forbidden for the 5 programming pins, VPP,VDD,RESET,INT,GND during the programming process.

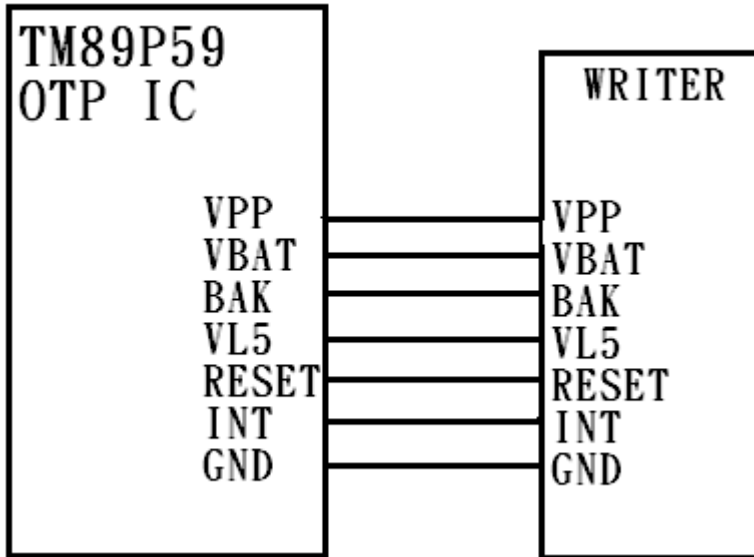
Please connect the WRITER programming pins to the OTP IC programming pins directly (the wire between WRITER and IC should not exceed 15cm).



**2. TM89P59 OTP IC**

Connecting to any components or short-circuit to other IO pins is strictly forbidden for the 7 programming pins, VPP,VBAT,BAK,VL5,RESET,INT,GND during the programming process.

Please connect the WRITER programming pins to the OTP IC programming pins directly (the wire between WRITER and IC should not exceed 15cm).



**\*\* Those parts in red fonts indicate area need to be modified. \*\***