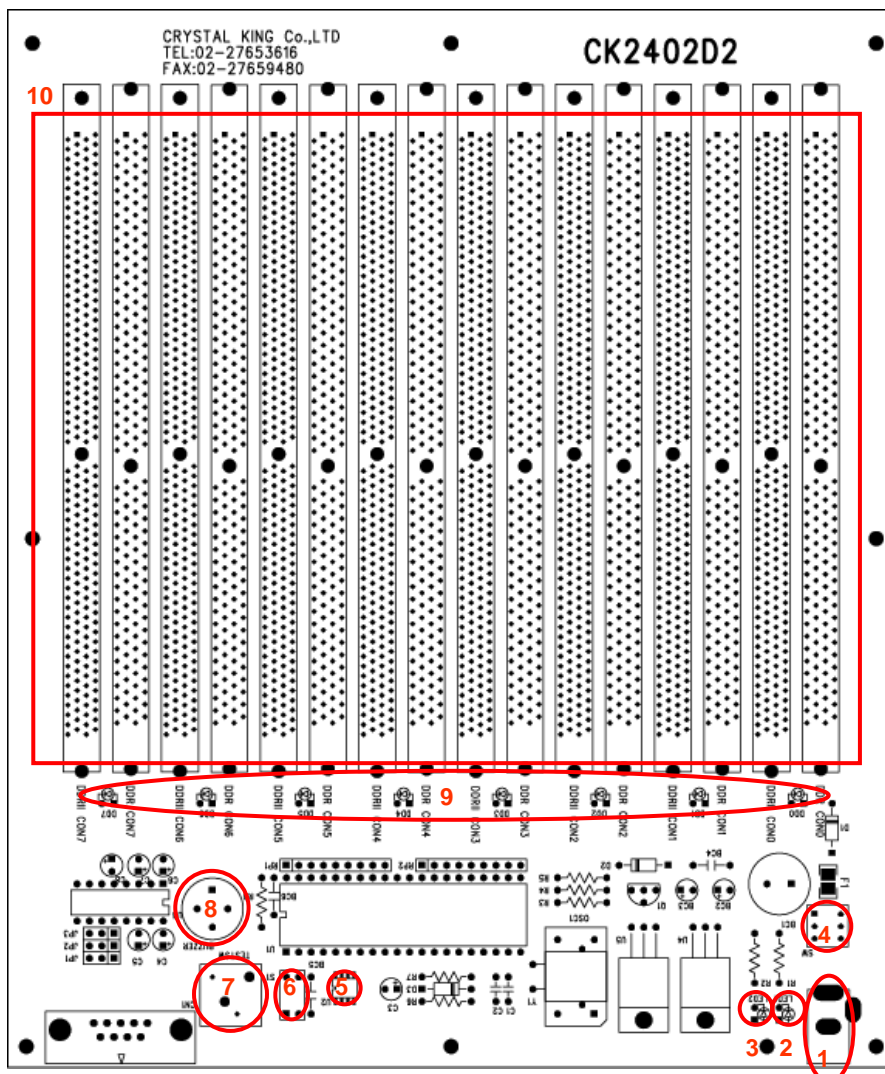


# CK2402D2 User's Manual

- ◆ Feature :
  - Programing & verifying 8 pcs modules at the same time
  - SPD data length : 256 Byte
  - Easy to read result from LEDs
  - DDR & DDR2 dimms distribute alternately
  
- ◆ Interface :
  1. DC JACK : DC 9V power plug
  2. LED1(Green) : DC 9V power indicator
  3. LED2(Yellow) : DC 3.3V power indicator
  4. SW : Power switch
  5. U2 : Master SPD(24C02) for store Source SPD Code
  6. S1 : DIP switch for function select(see Table 1.)
  7. TEST SW : Push button to execute the function of "S1"
  8. Buzzer : Beep , when executing functions
  9. DD0~7 : Result indicator after executing functions(see Table 2.)
  10. DDR/DDR2 CON0~7 : DDR/DDR2 RAM module connector



◆ Operating procedures :

1. Turn on the power by SW and DD0~DD7 light on by turns , the machine is standby.
2. Function select switch (S1) :

Mode	DIP1	DIP2	Function description
1	ON	OFF	Copy SPD Code from DDR/DDR2 CON0 to Master SPD
2	OFF	OFF	Copy & Verify SPD Code from Master SPD to DDR/DDR2 CON0~7
3	OFF	ON	Verify Master SPD Code with module on DDR/DDR2 CON0~7
4	ON	ON	Display Master SPD Code in Hex. (Bright-1 ; Dark-0)

Table 1.

3. Result indicator after execution(DD0~DD7 LED) :

Mode	DD0~7 LED	Result description
1	All Dark	Copy SPD Code from DDR/DDR2 CON0 to Master SPD correctly
1	All Twinkle	Copy SPD Code from DDR/DDR2 CON0 to Master SPD incorrectly
2/3	Dark	Copy & Verify SPD Code from Master SPD to DDR/DDR2 CON0~7 correctly
2/3	Bright	Copy & Verify SPD Code from Master SPD to DDR/DDR2 CON0~7 incorrectly

Table 2.

4. Copy SPD Code from DDR/DDR2 CON0 to Master SPD

- (1) Set S1 at DIP1-ON , SIP2-OFF
- (2) Place RAM module with source SPD Code on DDR/DDR2 CON0
- (3) Press TEST SW [Buzzer send out B(long)—B(short)B(short)]
- (4) DD0~7 LED shows all dark : Correctly  
DD0~7 LED shows all twinkle : Incorrectly  
Please check if the module placed incorrectly or golden finger is too dirty or dimm is damaged .  
After checking then repeat the steps above.
- (5) Take out the module

5. Copy SPD Code from Master SPD to DDR/DDR2 CON0~7

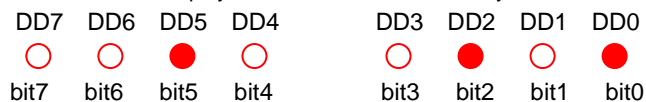
- (1) Set S1 at DIP1-OFF , SIP2-OFF
- (2) Place RAM module without SPD Code on DDR/DDR2 CON0~7
- (3) Press TEST SW [Buzzer send out B(long)—B(short)B(long)—B(short)]
- (4) Check DD0~DD7 LED  
Dark : Copy & Verify SPD Code from Master SPD correctly (Pass)  
Bright : Copy & Verify SPD Code from Master SPD incorrectly (Fail)  
If fail , please check if the module placed incorrectly or golden finger is too dirty or dimm is damaged . After checking then repeat the steps above.

6. Verify Master SPD Code with module on DDR/DDR2 CON0~7

- (1) Set S1 at DIP1-OFF , SIP2-ON
- (2) Place RAM module with SPD Code on DDR/DDR2 CON0~7
- (3) Press TEST SW [Buzzer send out B(long)—B(short)]
- (4) Check DD0~DD7 LED  
Dark : Master & RAM module SPD Code are the same  
Bright : Maste & RAM module SPD Code are different

7. Display Master SPD Code

- (1) Set S1 at DIP1-ON , SIP2-ON
- (2) Press TEST SW
- (3) DD0~DD7 LED display Master SPD Code in Hex. by turns . bit0~bit7 will show on DD0~DD7 LED . Dark-0 ; Bright-1



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◆ Attention

1. Don't place DDR&DDR2 RAM module on the dimm at the same time .
2. Please turn off the power if it is not in use .