SZZT_EPP_TEST Operation Description

The EPP of 596E

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1. General
   1) What is included
      Application Program: SZZT_EPP_TEST.EXE
   DLL: PIN_CS03_596E.dll
   2)
2. Operation Examples
   1) Run Application of SZZT_EPP_TEST.EXE
      Select the EPP Model "ZT596E", then click the button "OK".
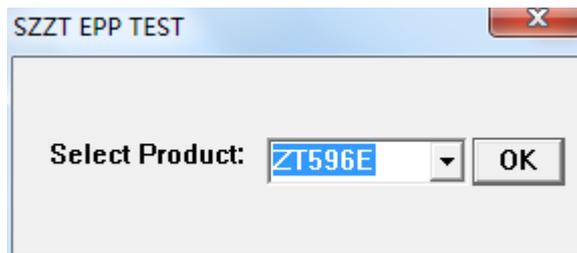

   You can select serial communication or USB communication. Set com port and baud rate, if serial communication selected. Then click the button "Open Device".
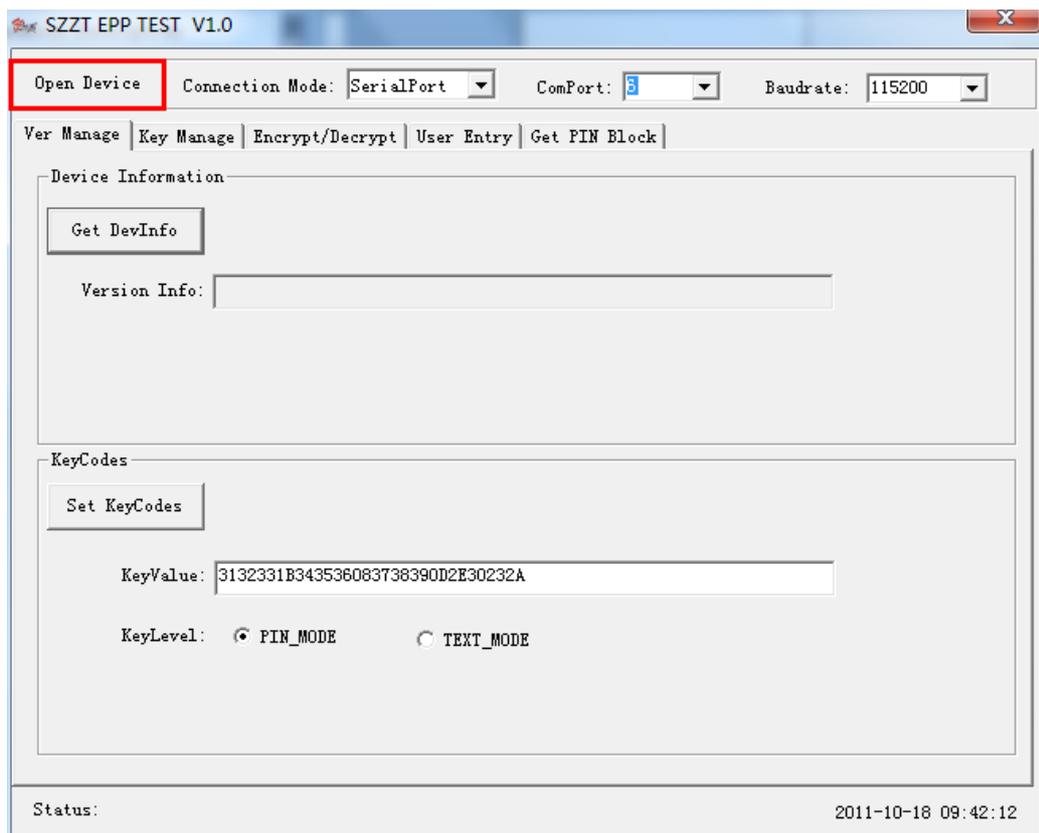

   2) Read EPP's Information
      Open the tab "Ver manage", then you can read the EPP's Information by click the button "Get DevInfo".
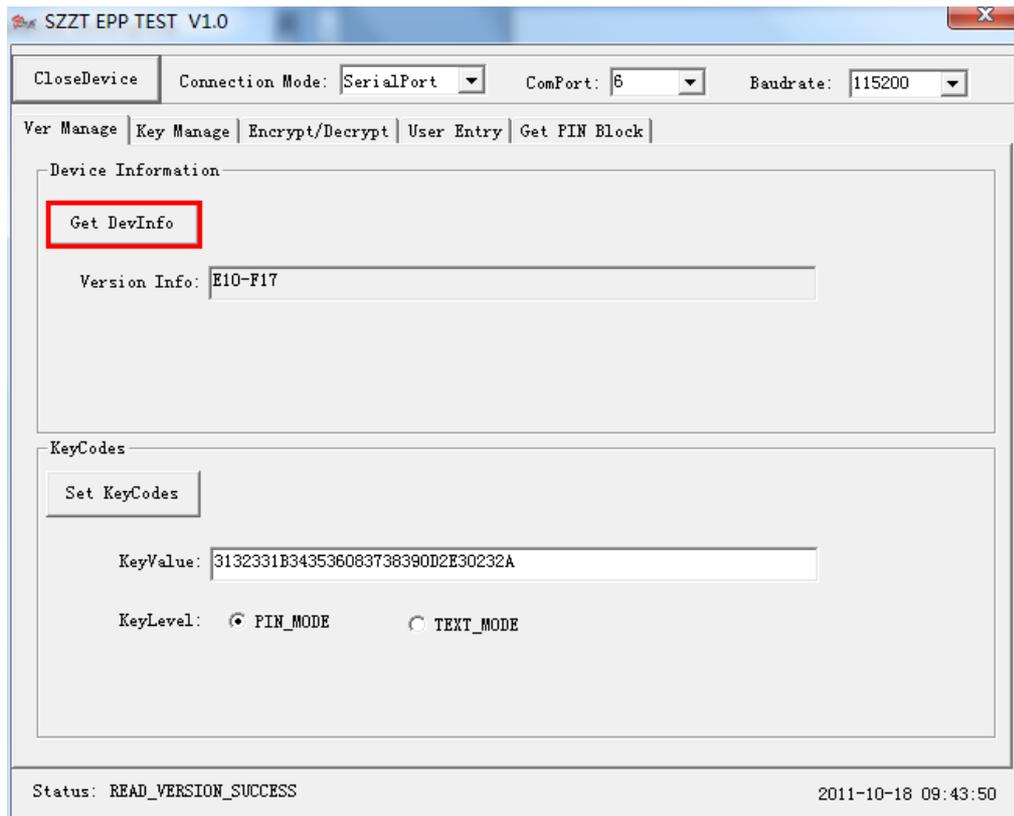
3) SET Key Codes
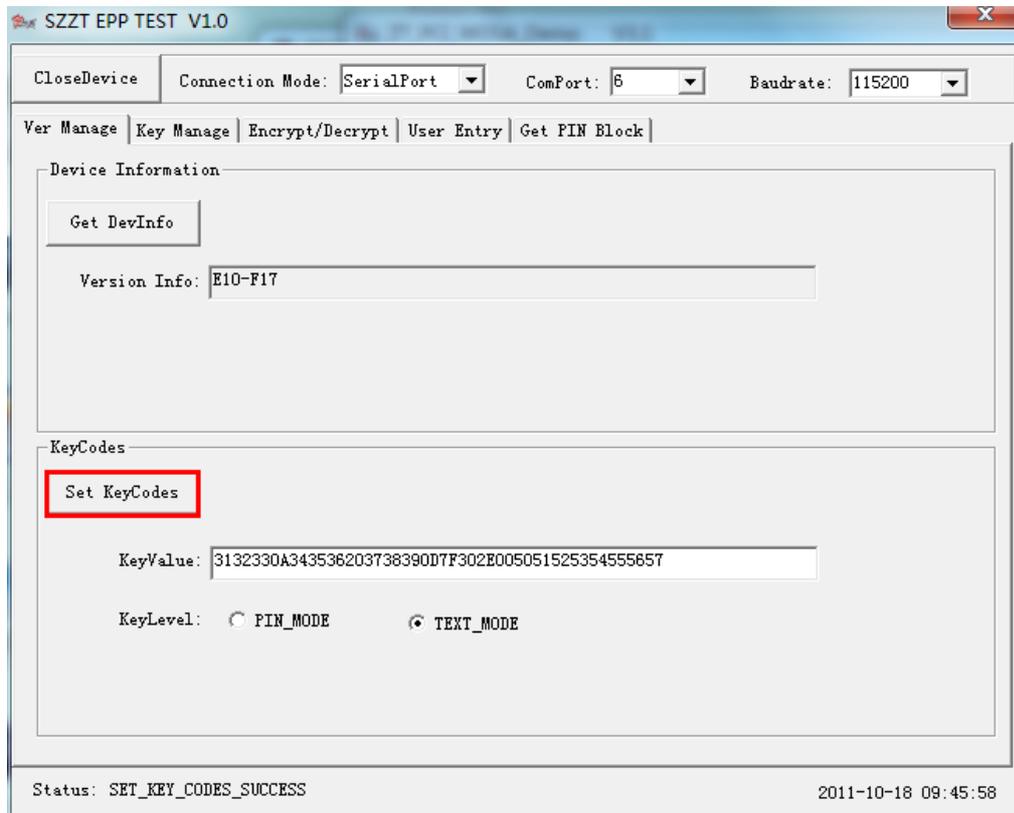
4) Initialization

Open the tab "Key manage". You can select the mode by selecting the combo-box value, "0" means a reset, while "1" means a Initialization which will delete all DES keys. Then

click the button "Initialization".
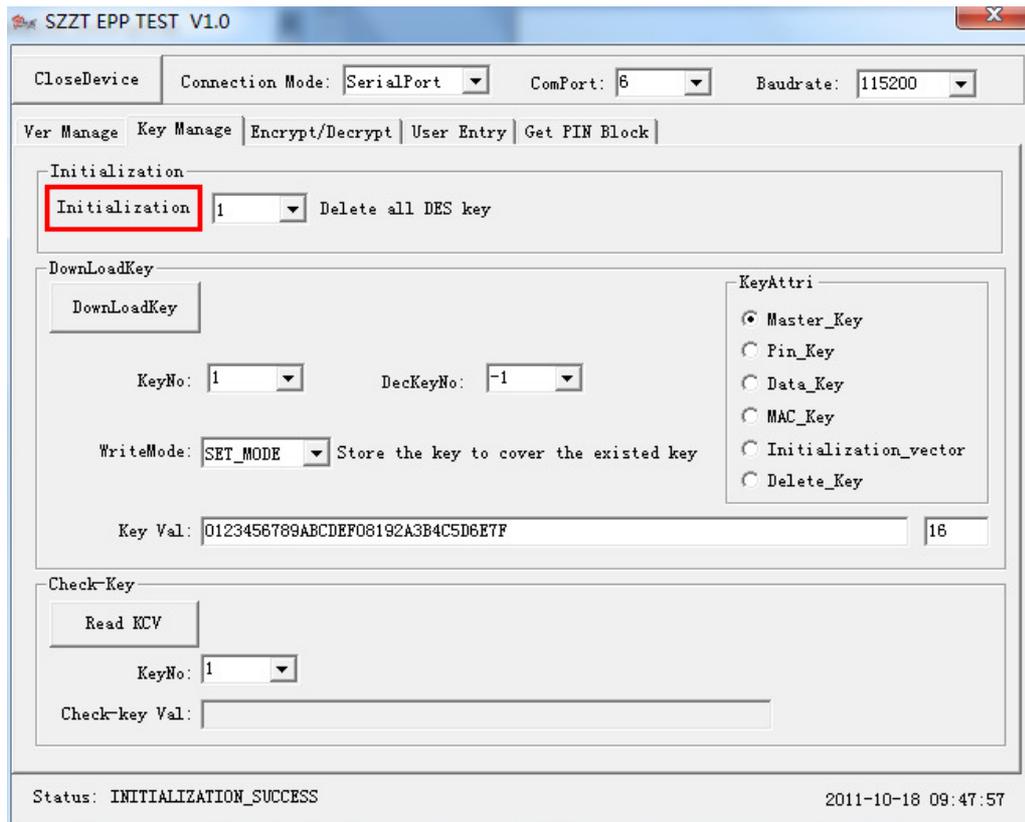
5) Download a clear text Master Key
   a. Set the *DecKeyNo* to "-1" ("-1" means clear text key, while others means encrypted key), *WriteMode* to "SET_MODE", *KeyAttri* to "Master_Key". Input the Key value, and then click the button "DownLoadKey".
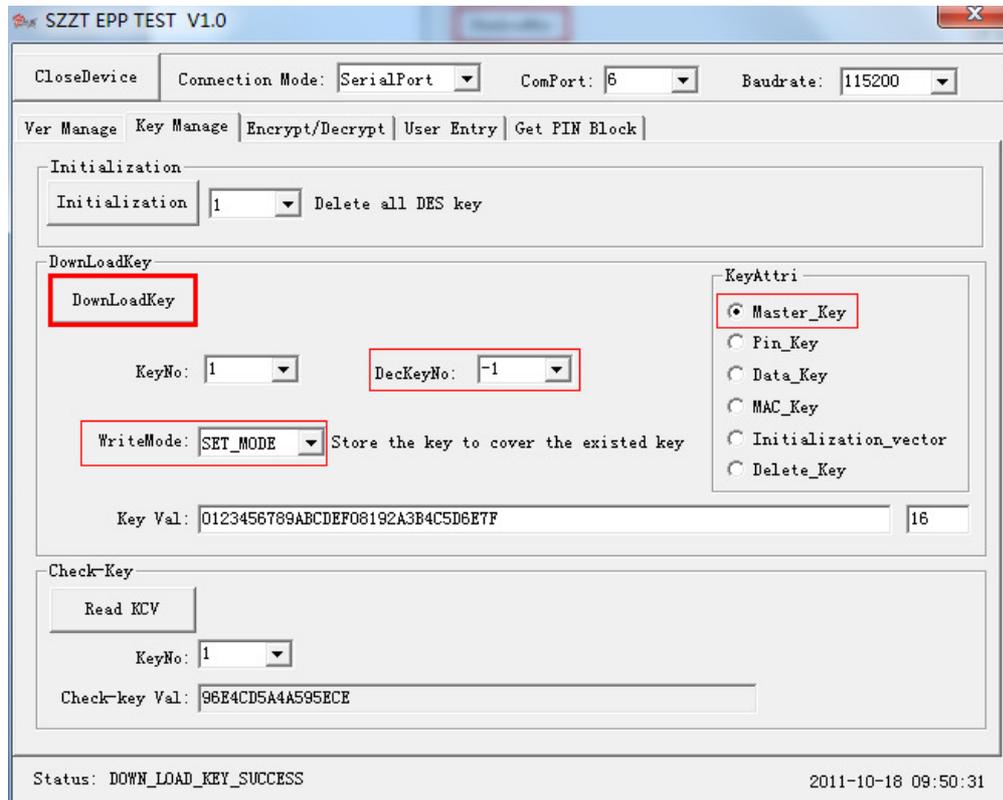
b. Set the *DecKeyNo* to "-1", *WriteMode* to "SET_MODE", *KeyAttri* to Master_Key.
    Input the Key value which will XOR with the exist key, and then click the button
    "DownLoadKey".
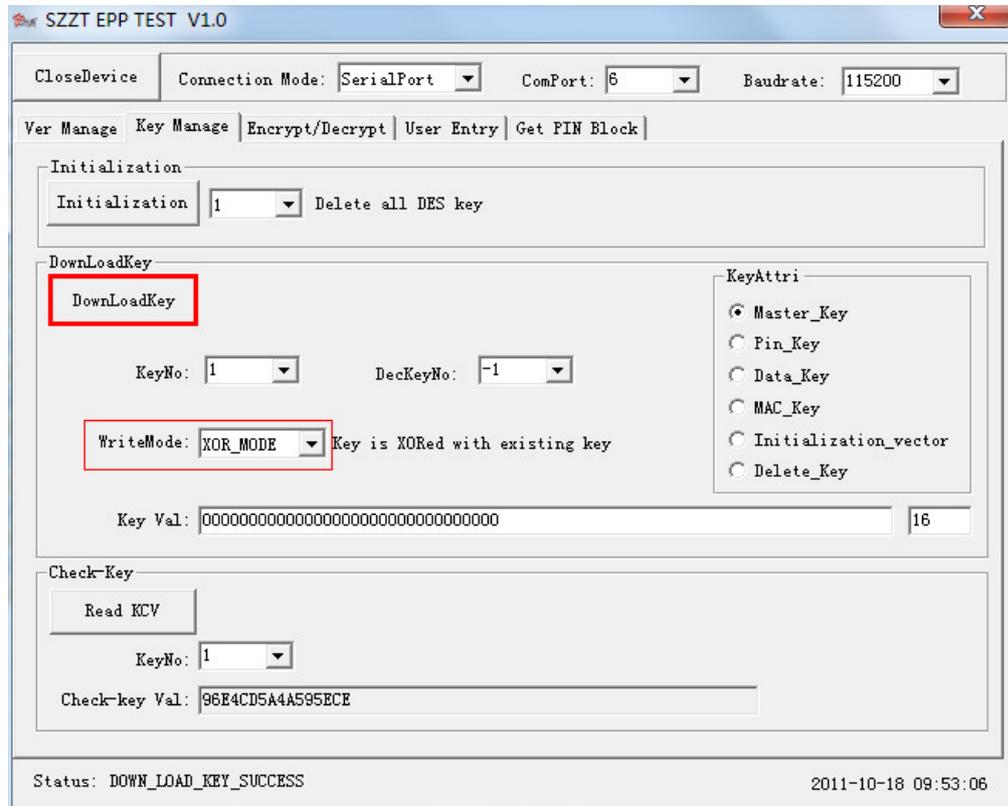
6) Download a PIN Key

    Download a PIN key by a master key for decrypting; this key will be used to encrypt PIN
    information.
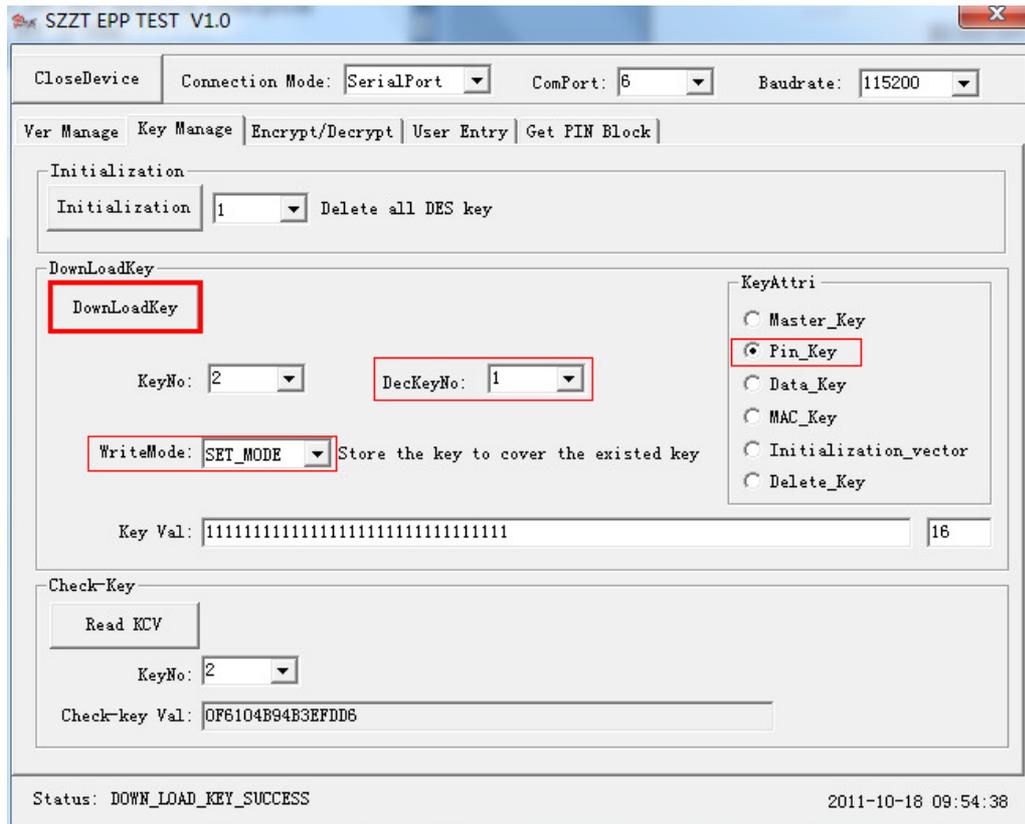
7) Download a Data Key

Download a Data key by a master key for decrypting; this key will be used to encrypt/decrypt Data information.
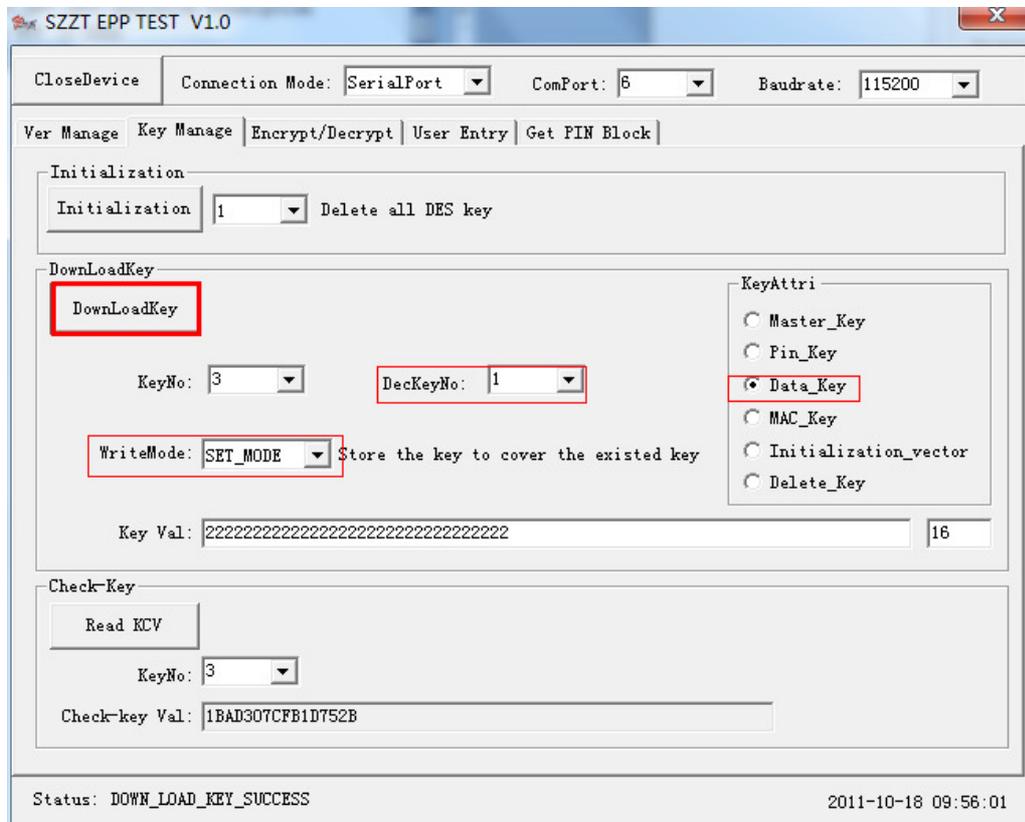
8) Download a Mac Key

Download a MAC key by a master key for decrypting; this key will be used to encrypt MAC information.
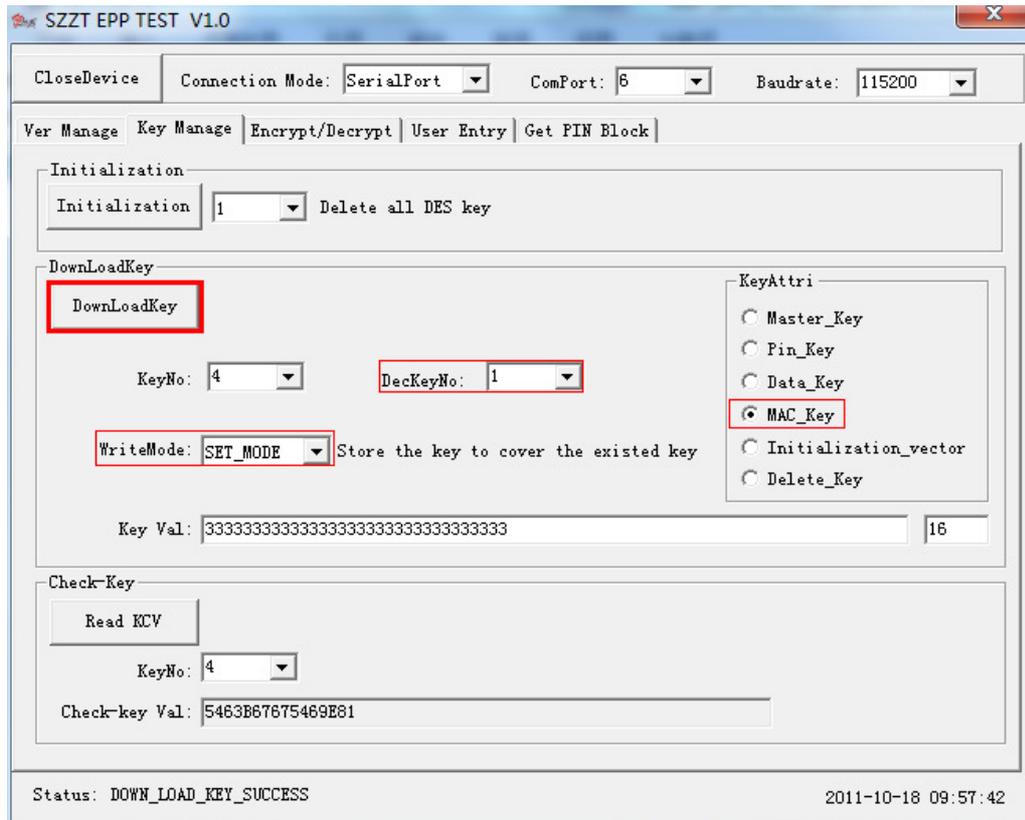
9) Data Encrypt/Decrypt

The *KeyNO* must be TDK (Data Key), and the *Algorithm* is "CRYPTEDSECB", "CRYPTDESCBC", "CRYPTTRIDESECB", or "CRYPTTRIDESCBC". Checkbox "Encrypt HEX" ticked means that the data you will enter to be encrypted/decrypted is a sixteen hexadecimal string. Click the button "Data Operation after finished setting the parameters.
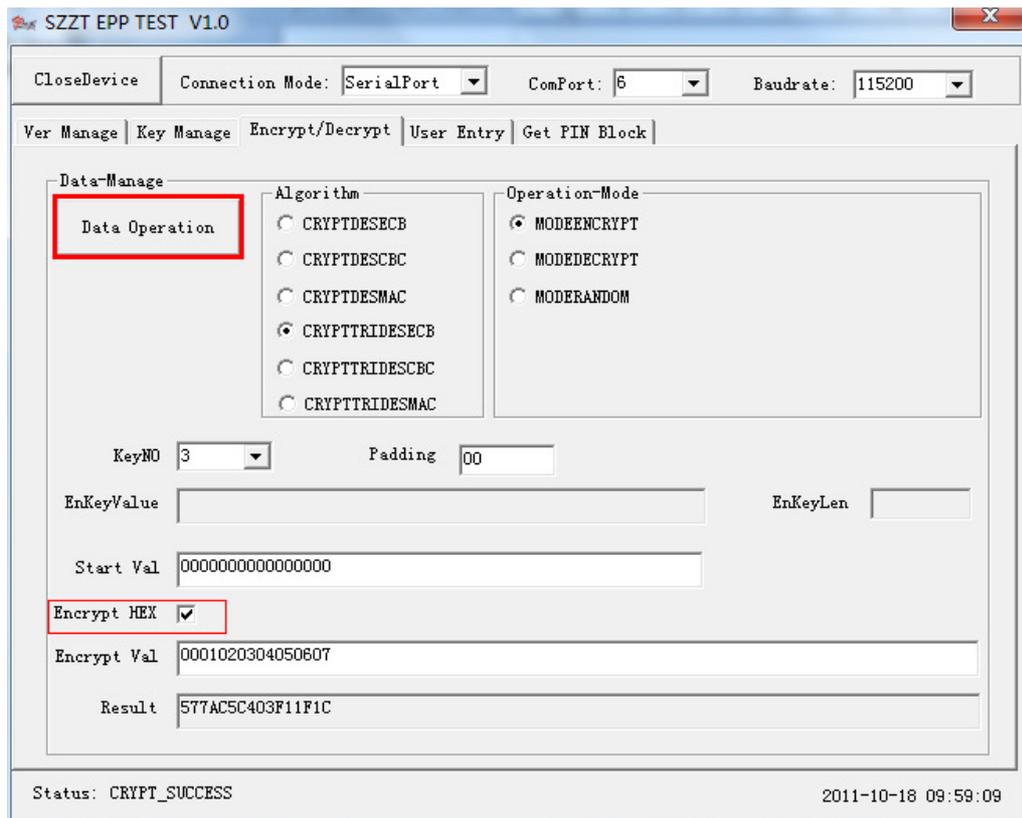
10) Mac

The *KeyNO* must be TAK (MAC Key), and the *Algorithm* is "CRYPTDESMAC" or "CRYPTTRIDESMAC". Checkbox "Encrypt HEX" ticked means that the data you will enter to be encrypted is a sixteen hexadecimal string. Click the button "Data Operation after finished setting the parameters.
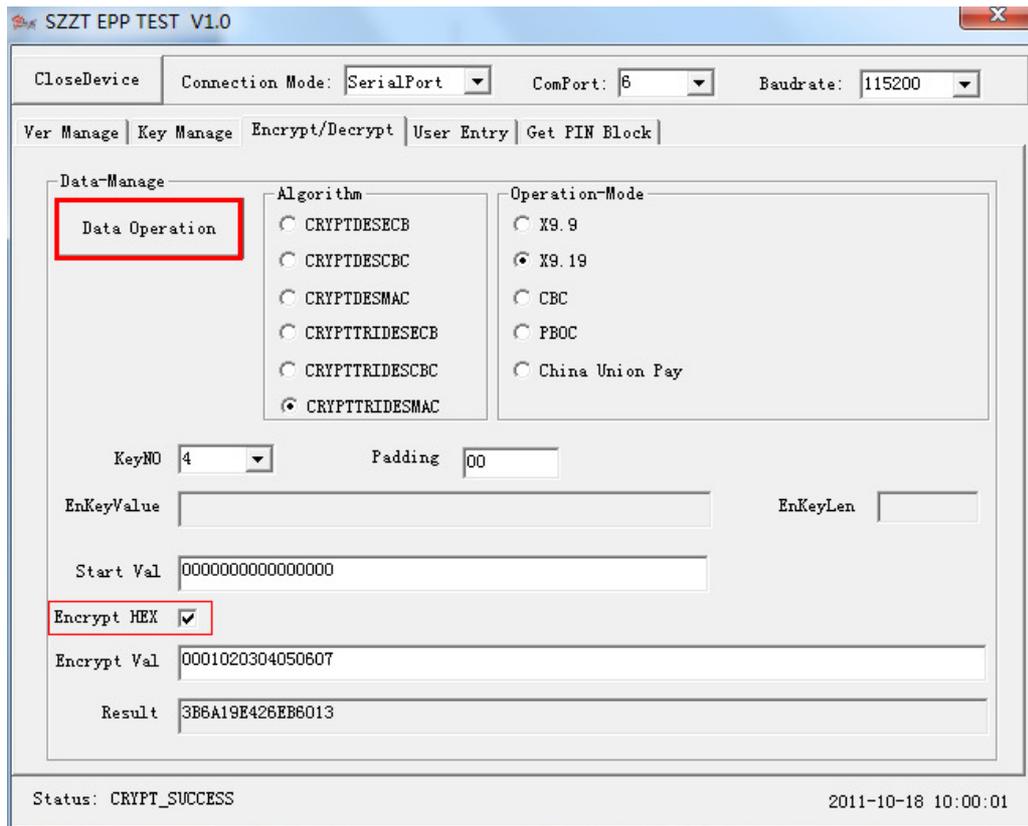
11) PIN Test
   a. Open the tab "User Entry". Set the entry mode to "MODE_PIN", and then click the button "OpenKeyBoard". If the Status shows "OPEN_KEYBOARD_SUCCESS", says the encrypting pin pad have been opened success, then you can entry your password and end with the "enter" key.
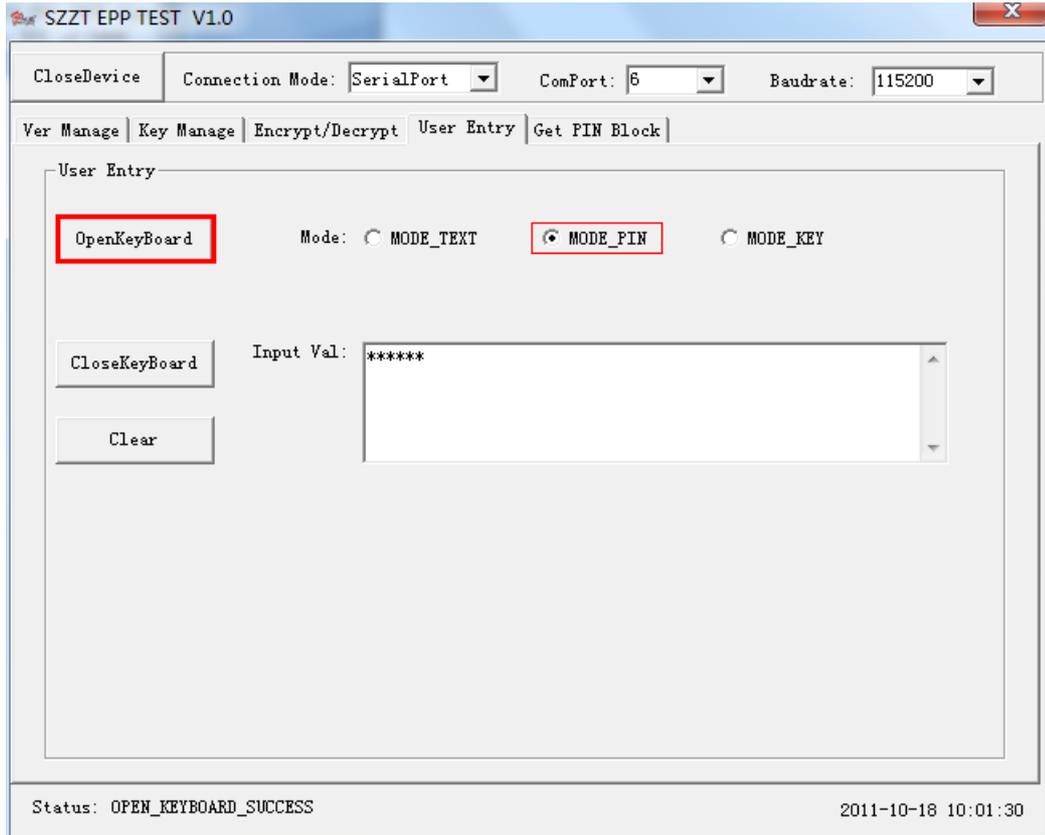
b. Open the tab "Get PIN Block". The *KeyNO* must be TPK (PIN Key). Click the button "Get PINBlock" after setting the parameters.
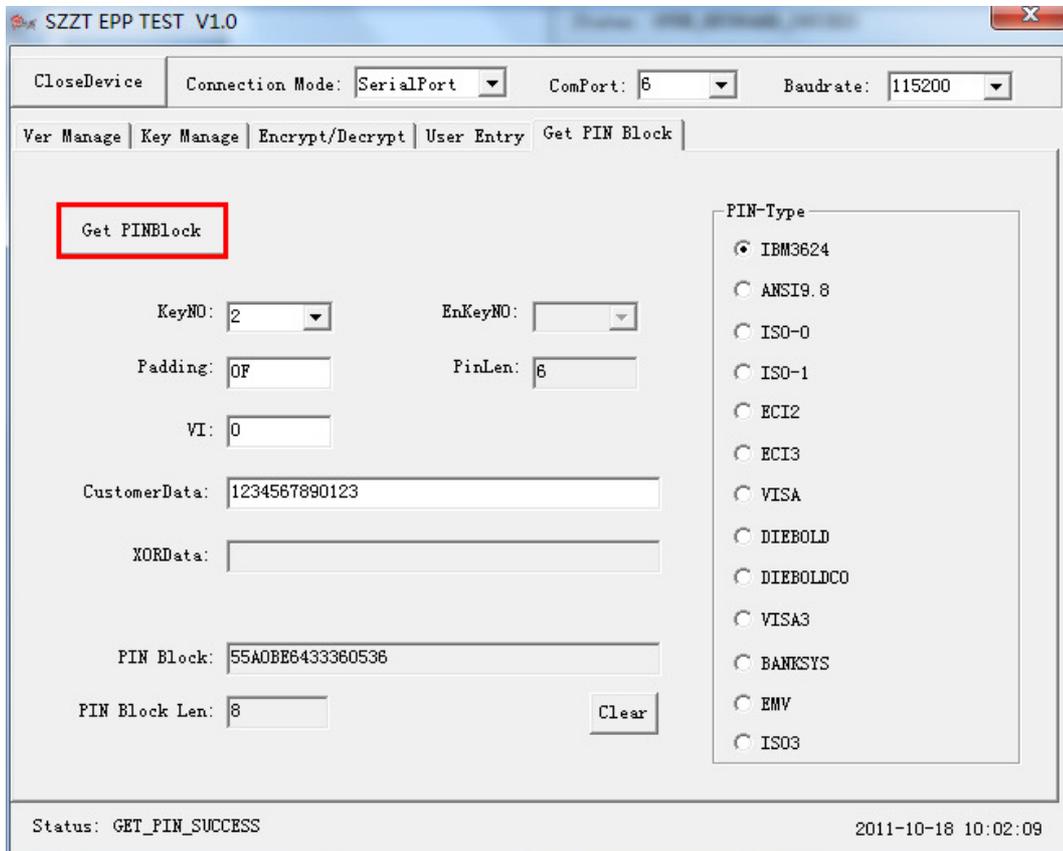
12) Clear Test

Click the button of "OpenKeyBoard", and then you can input key form EPP. Click the button of "CloseKeyBoard", if you want to end the entry.