

SMS: Short Message Service

The iP-8447/8847, µPAC-7186EG, WP-8xx7, I-8xx7/I-8x37-80, I-7188EG, I-7188XG, VP-25w7/23w7 and XP-8xx6-CE6 controller can integrate with a GSM Modem to support SMS: Short Message Service. This allows user to request information or control something from his own cellular phone to the ISaGRAF controller. Beside, the controller can also send information and alarms with short message in user's local language to user's cellular phone.

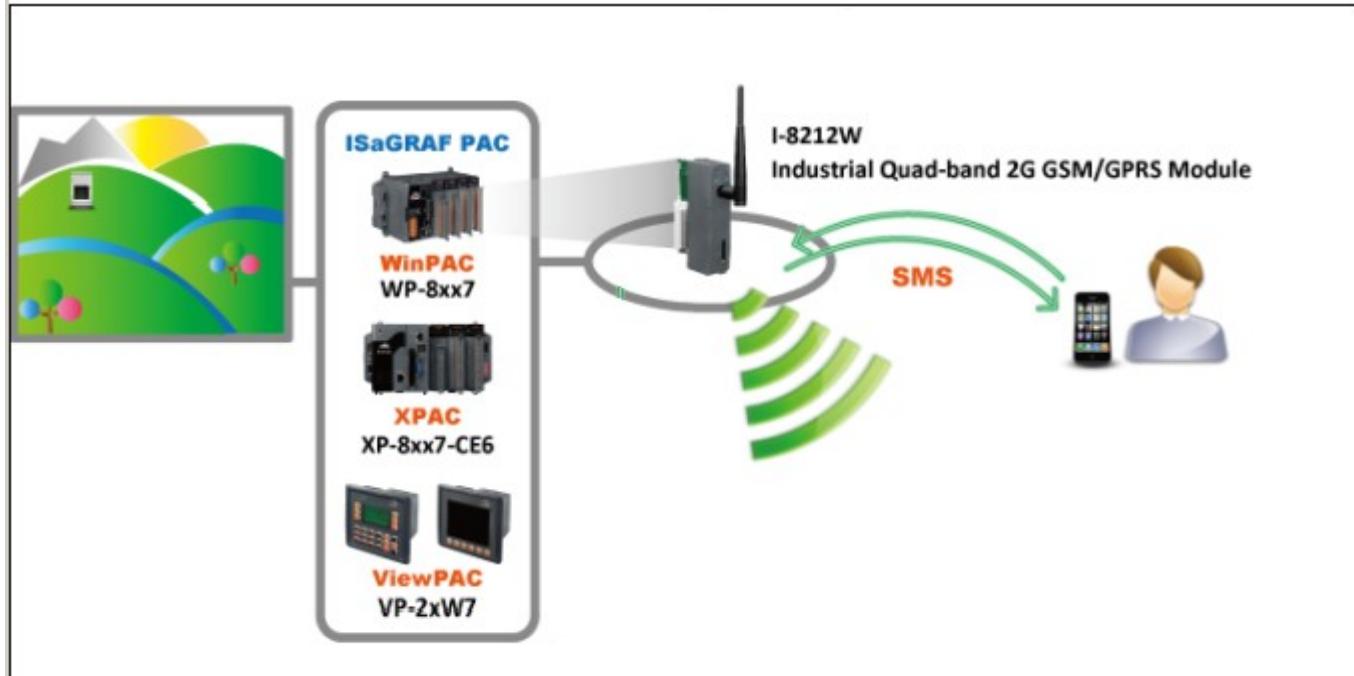
1.1 Hardware Installation of the I-8212W

If your PAC is XP-8xx7-CE6 / XP-8xx6-CE6 or WP-8xx7 / WP-8xx6 or VP-25W7 / VP-25W6 or VP-23W7 / VP-23W6, please use the I-8212W GSM / GPRS card (The I-8212W is better than the GTM-201-RS232). And make sure if your ISaGRAF driver fit the following listed version.

The following ISaGRAF driver version supports the I-8212W acrd.

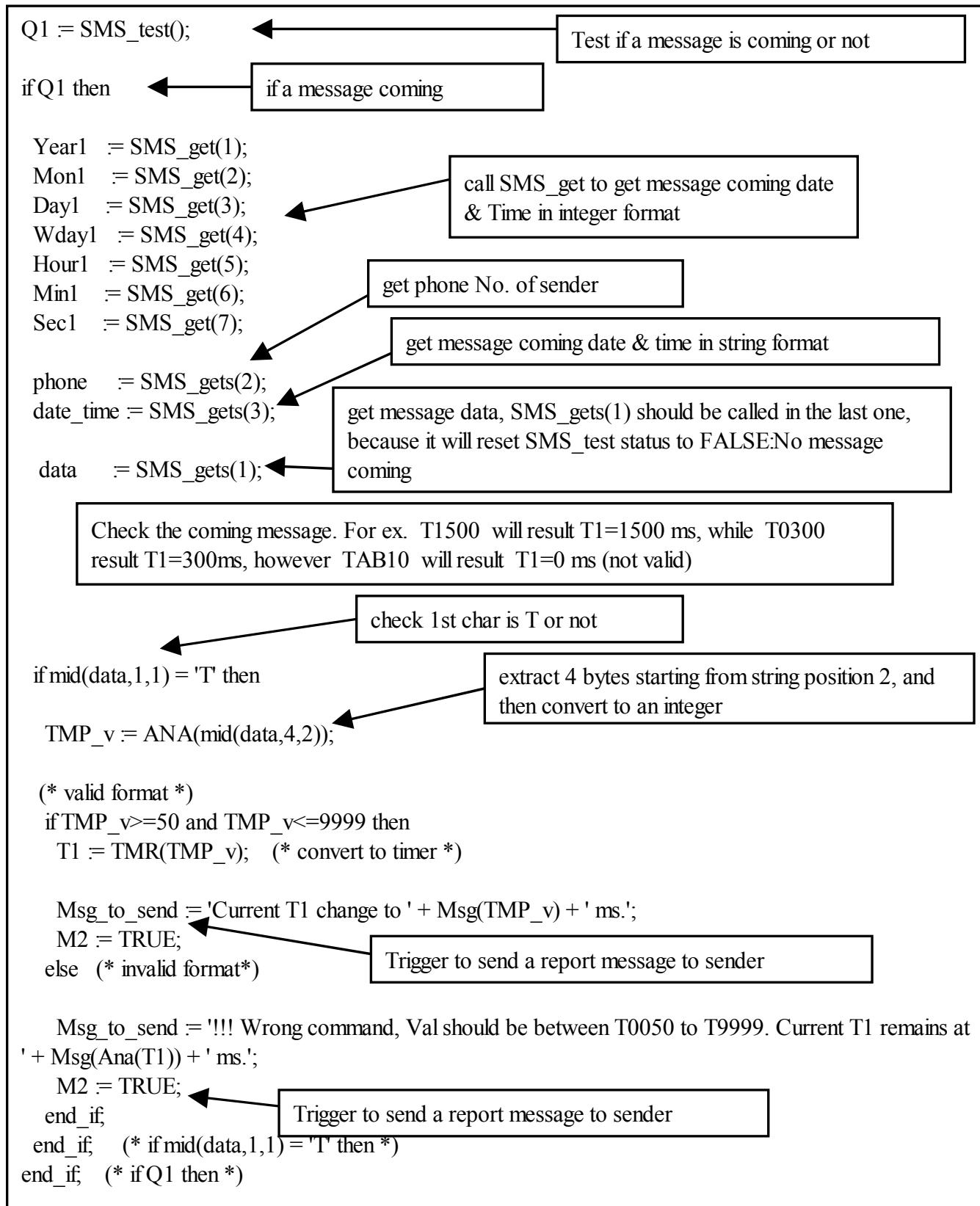
XP-8xx7-CE6: 1.17 or later ; **WP-8xx7:** 1.37 or later ; **VP-25W7/23W7:** 1.29 or later

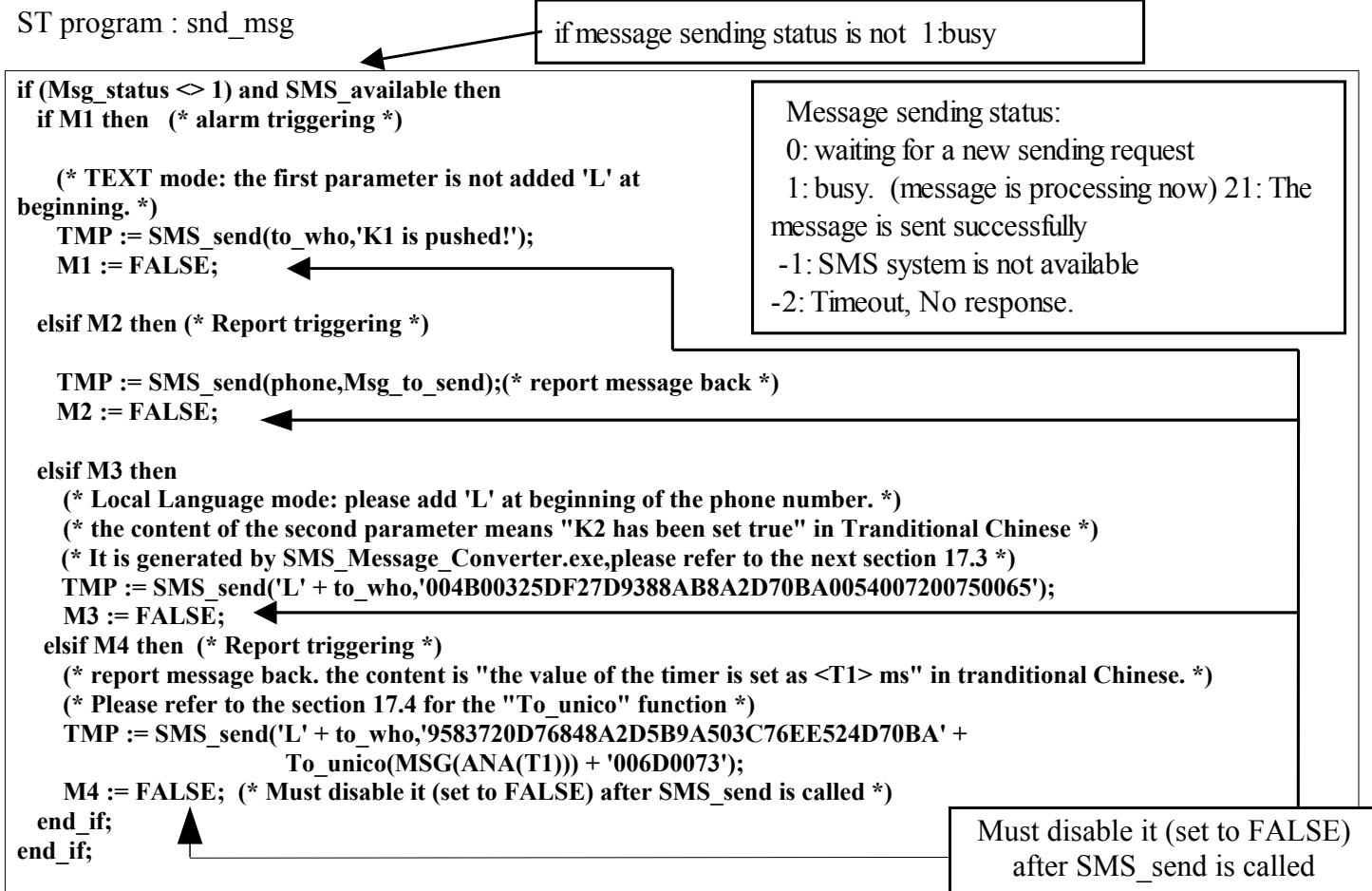
If your application is not only to send / receive SMS but also to send data or file via GPRS, please refer to <http://www.icpdas.com/faq/isagraf.htm> > 143.



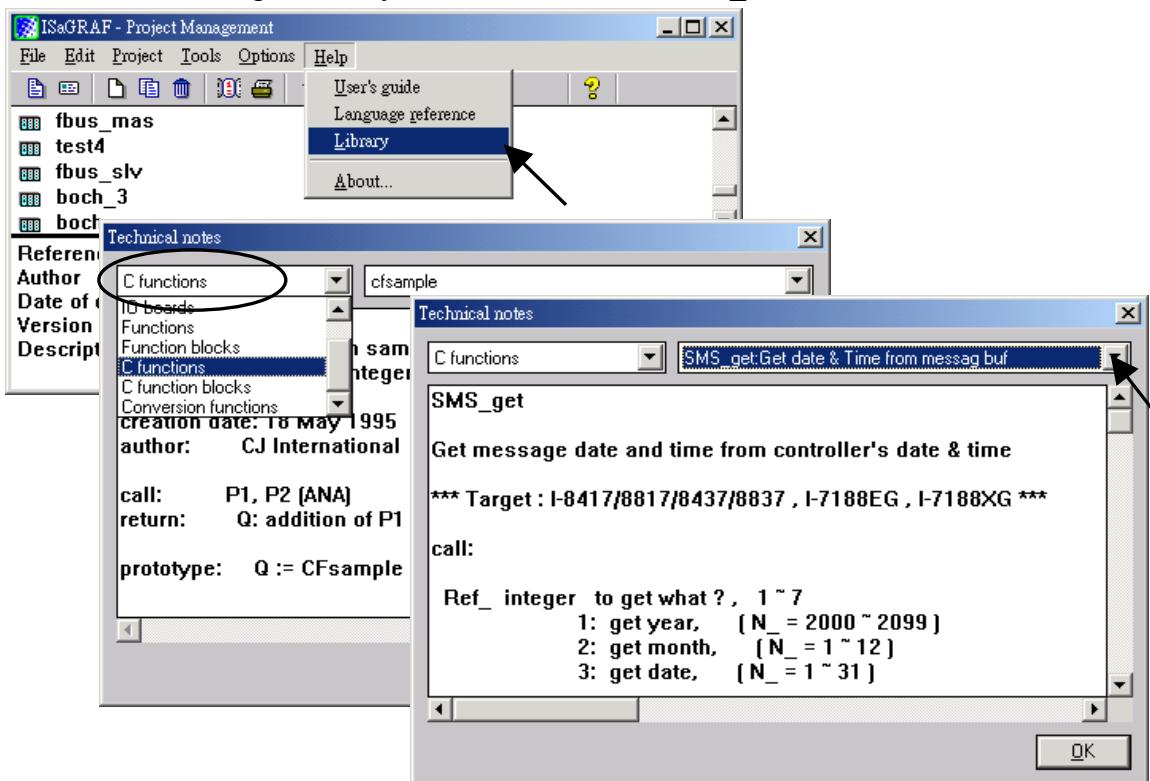
ST program : recv_msg

Attention : the ISaGRAF PAC supports receiving short message in "pure text" format. It can not receive short message in local language. However, it can send the short message in local language.





More description of SMS_sts, SMS_send, SMS_test, SMS_get, SMS_gets and To_unico, Please refer to ISaGRAF's On-line Help. "Library" – "C functions" – "SMS_xxxx"



1.4 How to use SMS_Message_Converter

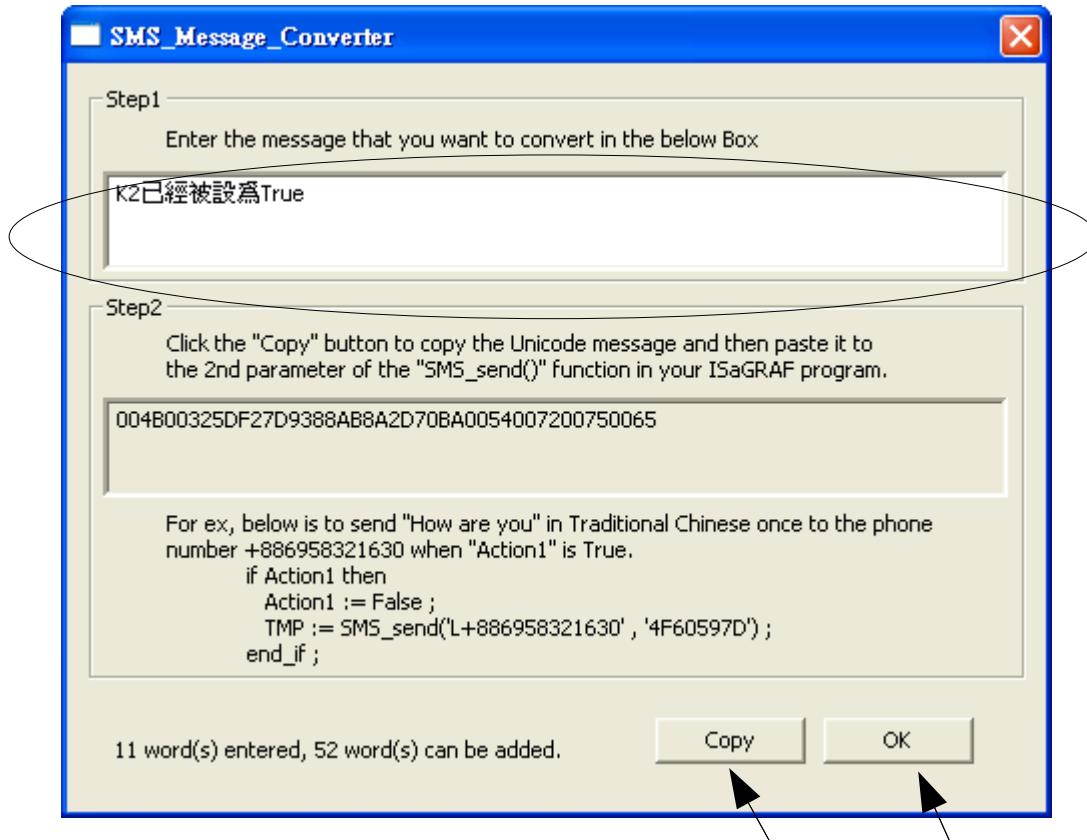
Please download SMS_Message_Converter.exe to your desktop form the below FTP site:

ftp://ftp.icpdas.com/pub/cd/winpac-8xx7/napdos/isagraf/some_utility/

How to Use :

Step 1 : Enter your words in local language that you want to translate in the first column.

Step 2 : Click the button "Copy", then Click the button "OK" to exit.



Step 3 : In the IsaGRAF program, press Ctrl-V to paste the converted string that we just copied to the second parameter of the function "SMS_send()"

ex :

if Action1 then

Action1 := False;

TMP := SMS_send('L+886958321630','004B00325DF27D9388AB8A2D70BA0054007200750065');

Attention : Please add 'L' at the beginning of the 1st parameter of "SMS_send" to send a short message in local language.

1.5 How to use “To_Uunico” to convert number string and ascii string to unicode string

Usage:

```
TO_UNICO
convert ascii string to unicode string in PDU mode format

*** Target :
Target 1: I-8417/8817/8437/8837 , I-7188EG , I-7188XG
Target 2: VP-25W7 / 23W7
Target 3: uPAC-7186EG
Target 4: iPAC-8x47
Target 5: WinPAC-8xx7 / 8xx6

call:
MSG_ : Message  The string to be converted, MAX length is 60.

return:
Q_ : Message return value
'123ABC' ---> '003100320033004100420043'
'45.002' ---> '00340035002E003000300032'
'!@#$' ---> '0021004000230024'
'1223221211... 231 '(if length is 61) ---> " (The string will not be converted)
```

ex1:

```
(* T1 is a timer variable *)
if Action1 then
  Action1 := False;
  TMP := SMS_send('L' + to_who,'9583720D76848A2D5B9A503C76EE524D70BA' +
                  To_unico(MSG(ANA(T1))) + '006D0073');
end_if;
```

ex2:

```
(* Int2 is a integer variable *)
if Action1 then
  Action1 := False;
  TMP := SMS_send('L' + to_who,'9583720D76848A2D5B9A503C76EE524D70BA' +
                  To_unico(MSG(Int2)) + '006D0073');
end_if;
```

ex3:

```
(* Real2 is a real variable *)
if Action1 then
  Action1 := False;
  TMP := SMS_send('L' + to_who,'9583720D76848A2D5B9A503C76EE524D70BA' +
                  To_unico(real_str2(Real2, 2)) + '006D0073');
end_if;
```

Attention : The length of the second parameter must be less than 255 characters, or some data will lose.