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PC MS-DOS Windows DOS  
 Windows  
 Windows  
 Windows 가 PC DOS  
 RS232 Windows 가  
 Windows 가 ?  
 Windows 가 Windows (API)  
 low  
 MFC(Microsoft Foundation Class) Windows API Wrapper  
 MFC API low

Windows  
 API 가 "WinCom"  
 DLL(Dynamic Linked Library) , 가 Windows

WinCom , Windows (MSCOMM.OCX) 가  
 128 가  
 WinCom Windows DLL MFC, Visual Basic, C++ Builder  
 가

WinCom 가

WinCom API  
 : go INTPDS -> 9 " /WinCom20 "  
 : go PDSCOM -> 7 " /WinCom20 "  
 : www.sysbas.com > > > WinCom20

( )

: 02)583-9748

WinCom ,

Windows  
DLL

"WinCom"

DLL CALL  
API

PC ,

MS-Windows 95/98/NT/2000

IBM PC

가 .

IBM COM1/COM2  
MULTI-8, MULTI-32

,  
, PC 4

MULTI-2, MULTI-4,  
128 .

WCMONITOR.EXE : WinCom

WCTEST.EXE : WinCom

WinCom .

- Visual Basic, C++, C++ Builder

-

(XON/XOFF...)

-

O/S

API

-

가

(

,

,

...)

-

가

-

가

(

,

,

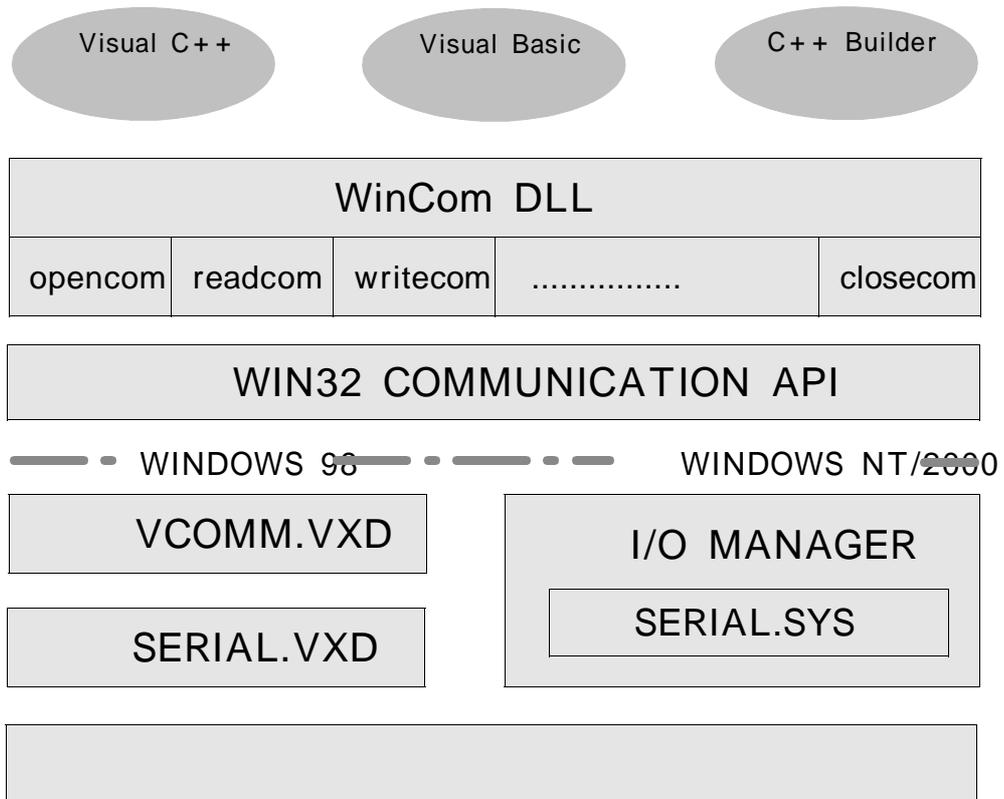
,

)

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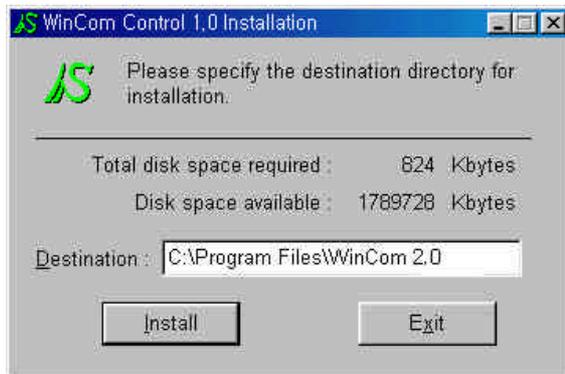
/



WinCom  
 DLL(Dynamic Link Library) Windows 98/NT/2000  
 Visual Basic, Visual C++, C++ Builder WinCom  
 가 .  
 WinCom DLL Windows 가 Wrapper 가  
 가 .  
 API .

- INSTALL.EXE :
- UNINSTALL.EXE :
- WINCOM.DLL :
- WINCOM.LIB :
- WCMONITOR.EXE : WinCom
- WCTEST.EXE : WinCom
- \SAMPLE\VC : WinCom (Visual C++ 6.0 )
- \SAMPLE\VB : WinCom (Visual Basic 6.0 )

1.



2. 'INSTALL'

가



3.

가

가

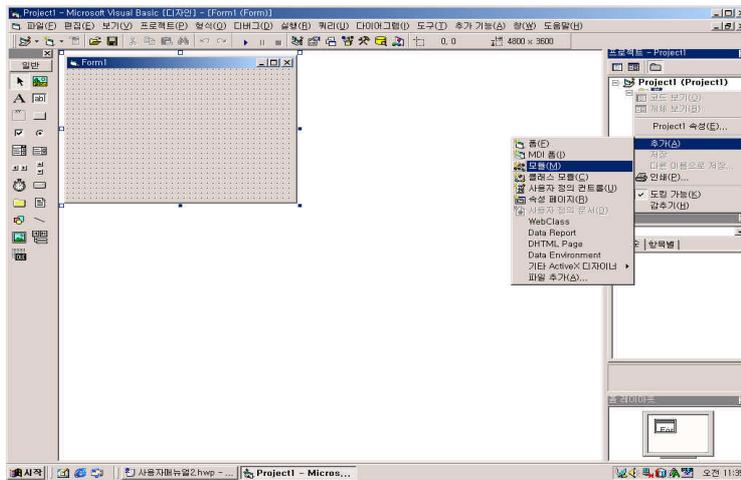


4. 'OK'

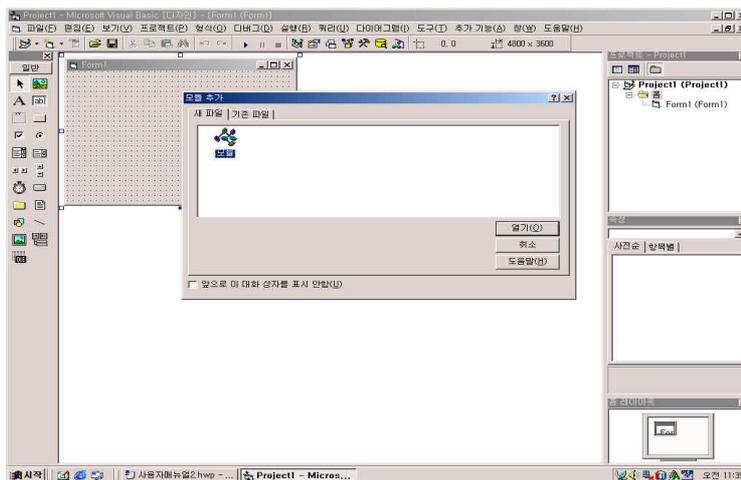
가

## 1. Visual Basic

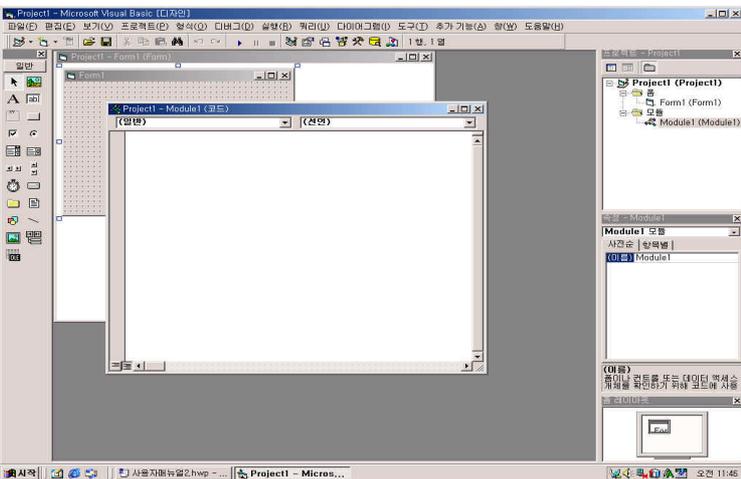
-> -> 가->



## 2. 가 가 가



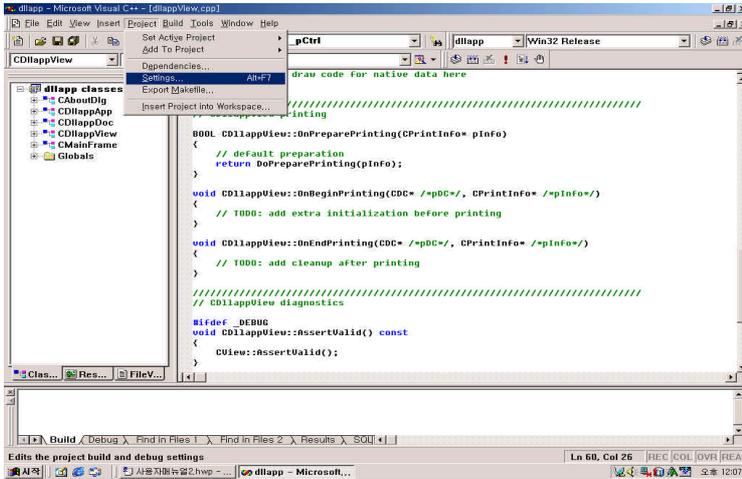
## 3. 가 WinCom WinCom ( Declare Function Lib "WinCom" ( ,.....) as type .)



## 1. Visual C++

WinCom.lib

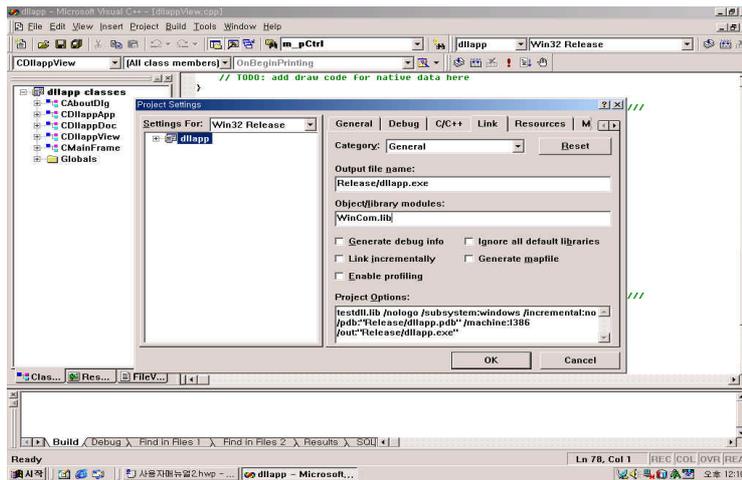
Project -> Settings...



## 2.

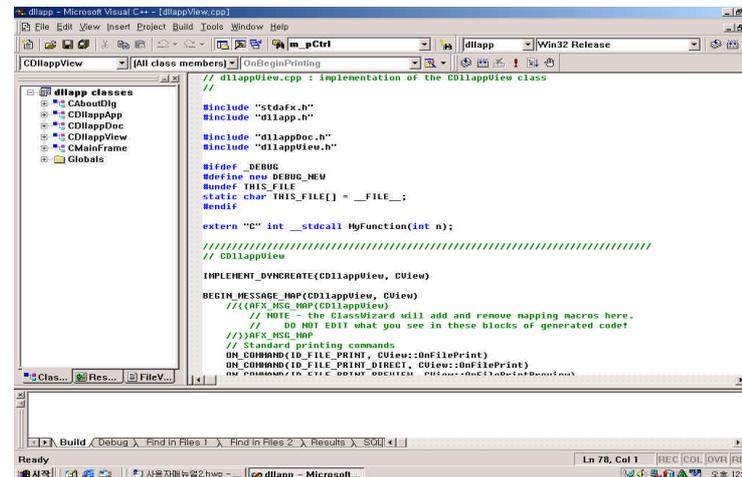
Project Settings  
Object/library modules "WinCom.lib"

Link tab



## 3.

가 WinCom  
( extern "C" type \_\_stdcall ( , ...))



1.

- WinCom

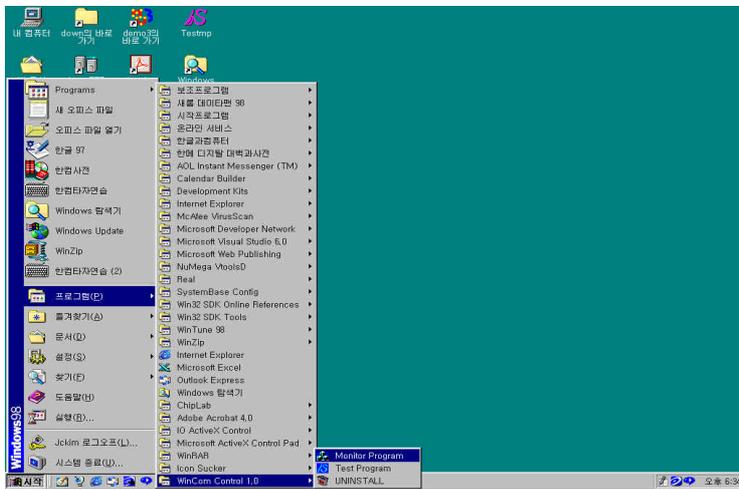
2.

- WinCom

- ( Visual Basic, Visual C++, C++ Builder ...)

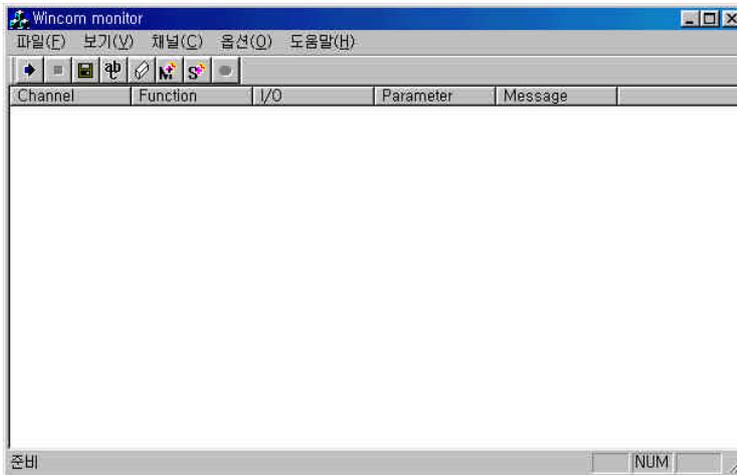
3.

- ' ' -> -> WinCom Control 2.0 -> Monitor Program



4.

가



가 .

- Start Monitor :
- Stop Monitor :
- Start Capture :
- End Capture :
- Exit :

가 .

- Tool Bar : Tool Bar on/off .
- Status Bar : Status Bar on/off .
- Channel Status Monitor :  
( , , ) .

가 .

- Enable All Channels :
- Disable All Channels :
- Select Channels :

가 .

- Select Font :
- Set Message Count :
- Set Auto Save Count :
- Clear All Message :

가 .

- About Monitor ... : Monitor 가 .  
( )

- Channel 가 .
- Function .
- I/O 가 .
- Parameter 가 가 .
- Message 가 가 .



## INITCOM

VC : long initcom (HANDLE hwnd)  
VB : Long initcom (hwnd As long)

hwnd :

function : 1 - WinCom  
          0 - WinCom

WinCom  
hwnd WinCom

## DESTROYCOM

VC : long destroycom()  
VB : Long destroycom()

가 initcom

function : 1 - WinCom  
          0 - WinCom

WinCom

OPENCOM

VC : long opencom (long port\_number)  
VB : Long opencom (port\_number As Long)

port\_number : (1 ~ 128)

function : BINARY X X X 0 0 0 0 0  
ALREADY OPEN  
CAN NOT OPEN  
PARAMETER ERROR  
DRIVER NOT INSTALLED

SETCOM

BYTE

VC : long setcom (long port\_number, long byte\_spec, long baud\_rate)  
VB : Long setcom (port\_number As Long, byte\_spec As Long, baud\_rate As Long)

port\_number : (1 ~ 128)  
byte\_spec : BYTE  
baud\_rate :

function : BINARY X X X 0 0 0 0 0  
PORT DISABLED  
PORT NOT FOUND  
PARAMETER ERROR  
DRIVER NOT INSTALLED

BYTE

NOT USED BIT 7, 6	PARITY BIT BIT 5, 4, 3	STOP BITS BIT 2	WORD LENGTH BIT 1, 0
00	000 = NONE 001 = ODD 011 = EVEN 101 = MARK 111 = SPACE	0 = 1 BIT 1 = 2 BITS	00 = 5 BITS 01 = 6 BITS 10 = 7 BITS 11 = 8 BITS

BYTE

PARAMETER ERROR 가

CLEARBFR

```

, CLEAR .
VC : long clearbfr (long port_number, long clear_code)
VB : Long clearbfr (port_number As Long, clear_code As Long)

port_number : (1 ~ 128)
clear_code : BINARY 0 0 0 0 0 0 X X
                                CLEAR
                                CLEAR

function : BINARY = X X X 0 0 0 0 0
                                PORT DISABLED
                                PORT NOT FOUND
                                PARAMETER ERROR
                                DRIVER NOT INSTALLED

```

CLEAR

CLEAR

"PARAMETER ERROR" clear\_code 1, 2, 3

WRITECOM

```

VC : long writecom (long port_number, char *source, long length)
VB : Long writecom (port_number As Long, source As String, length As Long)

```

```

port_number : (1 ~ 128)
source      : 가
length      : (1 ~ 10000)
function    : BINARY X X X X X 0 0 0
                                TERMINAL BUSY
                                BUFFER FULL
                                PORT DISABLED
                                PORT NOT FOUND
                                PARAMETER ERROR
                                DRIVER NOT INSTALLED
                                가

```

```

                                가 . (BUFFER FULL)
" XOFF FLOW CONTROL", " FLOW CONTROL"
                                DCD OFF
                                "TERMINAL BUSY" 가

```

READCOM

VC : long readcom (long port\_number, char \* destination, long \*length)
VB : Long readcom (port\_number As Long, destination() As Byte, length As Long)

port\_number : (1 ~ 128)
destination :
length : (0 ~ 10000 , 0 )

length :
function : BINARY X X X X 0 X X X

- BUFFER OVERFLOW
OVER RUN
PARITY/FRAMING ERROR
INSUFFICIENT DATA
PORT DISABLED
PORT NOT FOUND
PARAMETER EFRORR
DRIVER NOT INSTALLED

가

"BUFFER OVERFLOW" - 가
"OVER RUN" - UART 가
"PARITY/FRAMING ERROR" 가
"PARAMETER ERROR" length

READDCOM

VC : long readdcom (long port\_number, char \* destination, long \*data\_length, char \*delimiter, long delimiter\_length)
VB : Long readdcom (port\_number As Long, destiantion() As Byte, data\_length As Long, delimiter As String, delimiter\_length As Long)

port\_number : (1 ~ 128)
destination :
delimiter :
delimiter\_length : ( 1 ~ 8, 가 0~ 8)

data\_length :
function : BINARY X X X X 0 X X X

- BUFFER OVERFLOW
OVER RUN
PARITY/FRAMING ERROR
DELIMITER NOT FOUND
PORT DISABLED
PORT NOT FOUND
PARAMETER ERROR
DRIVER NOT INSTALLED

가

8
: delimiter\_length = HEX 04 : 4 BYTE
42 : 4 BYTE, 가 2 BYTE

"DELIMITER NOT FOUND"

CHECKBFR

VC : long checkbfr (long port\_number, long check\_code, long \*size)
VB : Long checkbfr (port\_number As Long, check\_code As Long, size As Long)

port\_number : (1 ~ 128)
check\_code : 1 = (BYTES)
2 =
3 =
4 =
5 =
6 =

size : check\_code
function : BINARY X X X 0 X 0 0 0 0
TERMINAL BUSY( FLOW CONTROL
PORT DISABLED
PORT NOT FOUND
PARAMETER ERROR
DRIVER NOT INSTALLED )

SETMDM

ON/OFF

VC : long setmdm (long port\_number, long set\_code)
VB : Long setmdm (port\_number As Long, set\_code As Long)

port\_number : (1 ~ 128)
set\_code : BINARY 0 0 0 0 0 0 X X
DTR
RTS

function : BINARY X X X 0 0 0 0 0
PORT DISABLED
PORT NOT FOUND
PARAMETER ERROR
DRIVER NOT INSTALLED

set\_code IBM PC TECHNICAL REFERENCE

CHECKMDM

VC : long checkmdm (long port\_number, long \*status\_code)
VB : Long checkmdm (port\_number As Long, status\_code As Long)

port\_number : (1 ~ 128)

status\_code : BINARY X X X X 0 0 0 0

CTS
DSR
RI
DCD

function : BINARY X X X 0 X 0 0 0

TERMINAL BUSY
PORT DISABLED
PORT NOT FOUND
DRIVER NOT INSTALLED

status\_code IBM PC TECHNICAL REFERENCE

FLOWCOM

FLOW CONTROL

VC : long flowcom (long port\_number, long flow\_code)
VB : Long flowcom (port\_number As Long, flow\_code As Long)

port\_number : (1 ~ 128)

flow\_code : HEX 0 X

0 = DISABLE FLOW CONTROL
1 = XON/XOFF FLOW CONTROL ENABLE
2 = XON/XOFF "
3 = XON/XOFF "

function : BINARY X X X X 0 0 0 0

UNABLE TO USE RTS
PORT DISABLED
PORT NOT FOUND
PARAMETER ERROR
DRIVER NOT INSTALLED

FLOW CONTROL

OFFISLAND

USER

VC : long offisland (long port\_number, long off\_code)
VB : Long offisland (port\_number As Long, off\_code As Long)

port\_number : (1 ~ 128)
off\_code : BINARY 0 0 0 0 X X X X
DATA USER
DELIMITER USER
EMPTY USER
MODEM USER

function : BINARY X X X 0 0 0 0 0
PORT DISABLED
PORT NOT FOUND
PARAMETER ERROR
DRIVER NOT INSTALLED

OFF CODE BIT 1

USER

ONDATA

가

VC : long ondata (long port\_number, long length)
VB : Long ondata (port\_number As Long, length As Long)

port\_number : (1 ~ 128)
length : (BYTES)

function : BINARY X X X 0 0 0 0 0
PORT DISABLED
PORT NOT FOUND
PARAMETER ERROR
DRIVER NOT INSTALLED

가

WM\_USER + 100 가

ONDEL

VC : long ondel (long port\_number, long length, char \*delimiter)  
VB : Long ondel (port\_number As Long, length As Long, delimiter As String)

port\_number : (1 ~ 128)  
length : (1 ~ 8, 가 0 ~ 8)  
delimiter :

function : BINARY X X X 0 0 0 0 0  
PORT DISABLED  
PORT NOT FOUND  
PARAMETER ERROR  
DRIVER NOT INSTALLED

가 .

WM\_USER + 200 가 .

가 8  
: length = HEX 04 : 4 BYTES  
42 : 4 BYTES, 가 2 BYTES

ONEMPTY

가 .

VC : long onempty (long port\_number)  
VC : Long onempty (port\_number As Long)

port\_number : (1 ~ 128)

function : BINARY X X X 0 0 0 0 0  
PORT DISABLED  
PORT NOT FOUND  
PARAMETER ERROR  
DRIVER NOT INSTALLED

가 .

WM\_USER + 300 가 .

ONMDM

가

VC : long onmdm (long port\_number, long check\_code)  
VB : Long onmdm (port\_number As Long, check\_code As Long)

port\_number : (1 ~ 128)  
check\_code : BINARY 0 0 0 0 X X X X  
CTS  
DSR  
RI  
DCD

function : BINARY X X X 0 0 0 0 0  
PORT DISABLED  
PORT NOT FOUND  
PARAMETER ERROR  
DRIVER NOT INSTALLED

가

WM\_USER + 400 가

CLOSECOM

VC : long closecom (long port\_number)  
VB : Long closecom (port\_number As Long)

port\_number : (1 ~ 128)

function : BINARY X X X 0 0 0 0 0  
PORT DISABLED  
CAN NOT CLOSE  
PARAMETER ERROR  
DRIVER NOT INSTALLED

 \_\_\_\_\_ ( )  
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FAX : (02) 583-9749  
/ : sysbas  
URL : [www.sysbas.com](http://www.sysbas.com)



# WinCom

Windows 95/98/NT

API

VERSION 2.0

