

Simple Communications Driver Software

SimpCom Version 1.07

Purpose:

The SimpCom v1.07 software package was developed with two goals in mind: to provide an easy-to-use communications package for use with Borland/Turbo C++, Borland/Turbo Pascal and QuickBASIC, and for use as an educational tool for programmers who are learning serial communications.

Function:

The SimpCom 1.07 routines reduce accessing the serial port to a simple set of software commands, which control all basic functions of the port. SimpCom v1.07 supports any port address and interrupt. Any available baud rate, from 2 to 115,200 baud, can be used. Transmitting and receiving characters and control of handshake lines require only single commands within your program. SimpCom now allows multiple ports to be installed on one interrupt to support our 3PXCC4A serial card.

Content:

The SimpCom v1.07 routines are written in 80x86 assembly language. The source code is included with the package, allowing advanced programmers to modify the routines to more closely fit their needs. Demonstration programs, written in Borland/Turbo C++, Borland/Turbo Pascal and QuickBASIC v4.5, are included with SimpCom v1.07. The documented programs demonstrate the SimpCom v1.07 routines, providing examples of how each of the routines can be used.

SimpCom v1.07 comes on one 3½" (1.44M) disk with a detailed instruction manual. Call B&B Electronics' Technical Support:

International Office

Technicians are available at (815) 433-5100 to answer your questions from 8 AM - 5 PM weekdays (Central Time).

European Office

Technicians are available at 353-91-792444 to answer your questions from 8:30 AM – 5 PM weekdays (GMT Time).

For more information, the SimpCom v1.07 manual can be purchased for \$5.00 from B&B Electronics. This fee will be discounted from the price of SimpCom v1.07 upon purchase of the package.

SimpCom Functions

Opening/Configuring/Closing a Port

Detect_Status ()
Error_Checking (comHandle, state)
Install_Driver (portAddress, irq, rxSize, txSize, portID)
Remove_Driver (comHandle)
Set_485 (comHandle, state)
Set_Baud (comHandle, baudRate, parity, dataBits, stopBits)
Set_FIFO (comHandle, level)
Set_Flow_Control (comHandle, flow, trigger)

Getting Data from a Port

RX_Char (comHandle)

Sending Data to a Port

Send_485 (comHandle)
TX_Char (comHandle, ch)

Buffer Management

Clear_RX_Buffer (comHandle)
Clear_TX_Buffer (comHandle)
RX_Buffer_Size (comHandle)
RX_Overflow (comHandle)
RX_Size (comHandle)
TX_Buffer_Size (comHandle)
TX_Size (comHandle)

Handshake Control

Set_DTR (comHandle, state)
Set_RTS (comHandle, state)

Handshake Status

CTS (comHandle)
DCD (comHandle)
DSR (comHandle)
DTR (comHandle)
RI (comHandle)
RTS (comHandle)

Miscellaneous

SimpCom_Version ()