

Short description of PHL1050/1300/1600/1700/2700 demo application

CFG16066.S2 is for the PHL1600 / PHL1700 1 MB handheld terminal (O/S ≥ CBGV0129)

CFH16066.S2 is for the PHL1600 / PHL1700 1 MB handheld terminal (O/S ≥ CBHV0129)

CFW16066.S2 is for the PHL2700 2 / 8 MB handheld terminal (O/S ≥ CBWV0129)

CFX16066.S2 is for the PHL1050 / PHL1300 handheld terminal (O/S ≥ CBWV0132)

In general:

<ENT>	key confirms action
<CLR>	key cancels action or escapes to a menu level one higher
<UP>,<Q1>	key scrolls up through menu or data
<DOWN>,<Q2>	key scrolls down through menu or data
<BL> or <F4>	key toggles the backlight on or off
<TRIGGER>	start scanning in menu Scan Labels; in menu selection works as <ENT> key

Backlight turns off when the terminal switches off (in order to save energy).

Main Menu

- 1 Scan Labels
- 2 Scroll through scanned data
- 3 System Menu
- 4 Delete scanned data
- 5 Transmit data to PC
- 6 Show software version

1 Scan labels

- Scan or type barcode
- The code ID + date and time stamp is displayed and is stored in a file.
- <CLR> key leaves scanning barcodes

2 Scroll through scanned data

- Use <UP> to go up through list
- Use <DOWN> to go down through list
- <CLR> key leaves scrolling through scanned data

4 Delete scanned data:

- <ENT> key confirms deleting data
- <CLR> key cancels deleting data

5 Transmit data to PC

- Press any key to start transmission or
- press <CLR> key to cancel transmission
- The protocol and port settings set through the system menu are used.
- The data is not deleted
- Press any key to go back to the Main Menu.

6 Show software version

- Show the version of the software in the PHL1600/PHL1700/PHL2700
- Press any key to go back to the Main Menu.

(System menu shown on next page)

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3 System Menu (*' denotes default setting)

- *1 Date/Time (set date and time)*

- *2 Com Port (set PHL1600/PHL1700/PHL2700 COM port parameters)*
 - Port (cable*, IrDA, cradle)
 - Baud rate (38400, 19200, 9600*, 4800, 2400, 1200)
 - Parity (none*, even, odd)
 - Data bits (7, 8*)
 - Stop bits (1*, 2)

- *3 Protocol (choose a transmission protocol)*
 - No protocol *
 - NetO protocol (Opticon propriety)
 - RCV protocol (like in SLT800, SLT804)
 - Xmodem
 - Kermit
 - ACK/NAK protocol

- *4 Display (change contrast of LCD display)*

- *5 Barcodes (set which type of barcodes must be scanned)*
 - Code 39*
 - EAN*
 - UPC*
 - Interleaved 2 of 5*
 - Industrial 2 of 5*
 - Codabar*
 - Code 93*
 - Code 128*
 - MSI / Plessey*
 - Telepen*
 - UK / Plessey*
 - All add-ons (UPC, EAN, Codabar)
 - IATA code*
 - Scode*
 - All codes (supported by PHL1600/PHL1700/PHL2700, including menu labels)

- *6 Memory (shows how much data memory is left)*

(Data format described on next page)

(Short description of PHL1050/1300/1600/1700/2700 demo application cntd)

Data format:

Each record is stored in a file with the name DATA.FIL.

Fields in a record are:

<barcode 30 characters right padded with spaces>
<code ID 16 characters right padded with spaces>
<date stamp 10 characters DD/MM/YYYY>
<time stamp 8 characters HH:MM:SS>

Fields are separated by a comma.
Each records ends with <CR><LF>.

So, a complete record is built as follows:

<barcode>,<code ID>,<date stamp>,<time stamp><CR><LF>

Example:

012345678901234567890123456789,CD 39 FULL ASCII,08/10/1998,14:34:07<CR><LF>

This data format is used with file transfer protocols and with the setting 'No Protocol'.

Data transmission:

In all cases the PHL1050/1300/1600/1700/2700 will use the port, baud rate, parity, data bits, stop bits settings that were set in the 'comport' menu. Available ports are: direct cable, cradle, IrDA.

Make sure that the ports settings on the PHL1050/1300/1600/1700/2700 correspond to the port settings used by the file transfer program on the PC.

When 'Protocol' is set to a file transmission protocol the data is transmitted to a text file with the name DATA.FIL. The records are according to the format described above.

The data can be read with for instance NOTEPAD.EXE.

When 'Protocol' is set to 'No Protocol' data is sent one record after another without pauses.

A program like PCPLUS, PCANYWHERE or HYPERTERMINAL is needed to catch the data from the PC's serial port and to display the data on the screen.

When 'Protocol' is set to 'ACK/NAK protocol' then each record must be acknowledged by an ACK character (HEX 6) or rejected by an NAK character (HEX 15). A record may be rejected up to 3 times, else transmission stops.

After the last records is acknowledged, the PHL1050/1300/1600/1700/2700 sends an EOT character (HEX 4) that indicates the end of transmission.

Tip for NetO:

When you use the NetO protocol set the PHL1050/1300/1600/1700/2700 port settings to 19200,N,8,1. On the PC you can then simply type: DOWNLOAD <ENTER> and DATA.FIL will be transferred to the PC. DOWNLOAD operates at 19200,N,8,1 by default.

When you type DOWNLOAD /? you will see all the command line parameters of DOWNLOAD.EXE.