

# Compressed:

HOBLink X11. What it can do. How it can be useful.  
A brief description!

## Printing via TCP/IP

HOBLink LPR is a LPR print program based on the Line Printer Demon protocol (RFC 1179). It allows you to print on remote hosts connected to the network. The hosts must support the "Berkeley Line Printer" protocol. The number of copies, the cover page and the page headers can be specified, and any files that are stored on the PC can be printed. The printer queue can be displayed and jobs removed from it.

## Installation on a Network Server

If your computer system has access to a remote hard disk via a network server, then you can install a single copy of HOBLink X11 on that hard disk that can be used by several users.

## System Requirements

Your system must meet the following requirements in order to be able to install and run HOBLink X11:

### PC Hardware

- ✓ Connection to a TCP/IP network
- ✓ Otherwise HOBLink X11 requires no additional hardware other than that required by the operating system OS/2

### PC Software

- ✓ IBM OS/2 Warp 3 or higher

### Host

- ✓ TCP/IP protocol via Token-Ring or Ethernet
- ✓ Optional: server support for FTP and TFTP
- ✓ Virtual terminal protocol Telnet and/or
- ✓ xdm client with XDMCP support and/or
- ✓ RSH and/or REXEC
- ✓ Optional: server support for the "Berkeley Line Printer" protocol
- ✓ X applications (Clients); e.g. xterm, mwm

### Network

- ✓ HOBLink X11 runs on any network that supports the TCP/IP protocol.

Test? Fine with us.

We're convinced that you'll

like HOBLink X11.

Just call or fax us.

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# HOBLink X-11

Product Information

HOBLink X11

PC Emulation for OS/2

Software version 3.5

OS/2

## The Complete Package: HOBLink X11

HOBLink X11 is an integrated PC X Server package that allows you to use your PCs running OS/2 as an X Window terminal. It opens the world of graphical host applications to you under OS/2.

## HOBLink X11: the Connectivity Package for TCP/IP

- ✓ X11 Server Release 6.3
- ✓ Telnet Terminal-Emulation
- ✓ Graphical User Interface for the File Transfer Protocol (FTP)
- ✓ Graphical User Interface for the Trivial File Transfer Protocol (TFTP)
- ✓ LPR - a program that allows you to print on remote computers
- ✓ Menu-driven installation and configuration programs
- ✓ Ping program allows you to test the configuration and the physical connections

## HOBLink X11 - the PC connectivity solution to the world of graphical host applications - under OS/2

- ✓ Automatic program start via REXEC and the RSH protocol for hosts that are not XDMCP capable (e.g. Tektronix)
- ✓ Numerous character sets for on screen display of the X character
- ✓ Detailed online help

## The X Server

The main component of HOBLink X11 is the X Server. This "Multiple X Server" allows you to execute several graphical applications (X Clients) concurrently - parallel to other OS/2 applications. Different X clients can even be running on different network nodes. A heterogeneous network appears transparent to the PC user - it looks like a uniform system to him.

HOBLink X11 supports the current TCP/IP standards as well as the X Window System (X11R6.3). The management of the windows can be handled either locally by MS Windows or remotely using e.g. Desktop Window Manager, Motif, Open Look.



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Always one step ahead

## The X Server

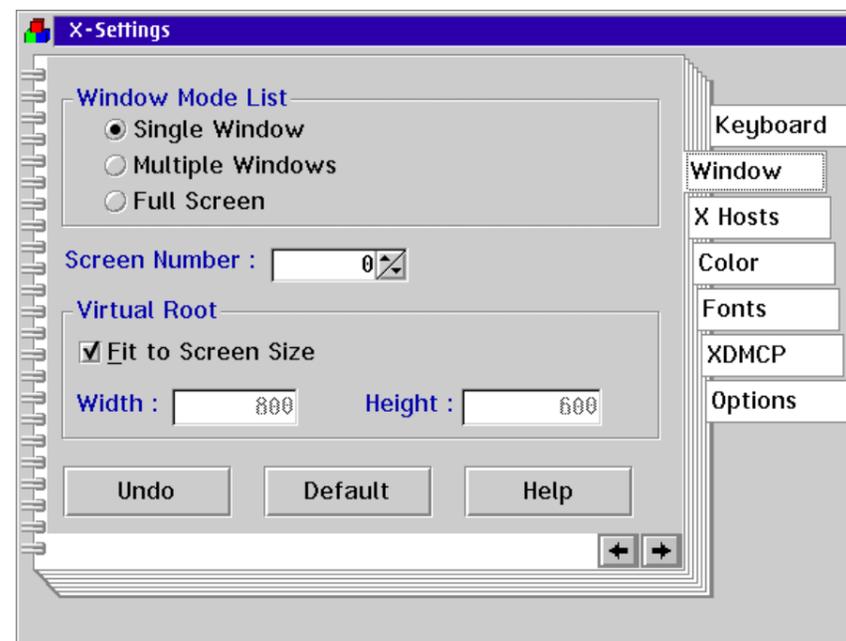
- ▶ A Choice of Three Different Display Modes  
The X Server can run in three different display modes: multiple window mode, single window mode and full screen mode.
- ✓ In the multiple window mode each X client is displayed in a separate OS/2 window. IBM OS/2 takes on the tasks of the X Window Manager of displaying and managing the windows.
- ✓ In the single window mode all X clients are displayed in a single window, in the X-session window. The management of the windows is done by the remote system.
- ✓ In the full screen mode all X clients are displayed outside of the OS/2 GUI. The X session occupies entire screen.
- ▶ Supports the X Window System - X11 Release 6.3 (X11R6.3)
- ▶ Multiple X session Capability  
The X server can be started several times and can connect to different hosts simultaneously.

- ▶ Supports Non-XDMCP Hosts  
HOBLink X11 supports Citrix and WinDD (Tektronix) as well as other hosts that do not support XDMCP.
- ▶ DIVE (Direct Interface Video Extensions) for optimum performance when you use programs that often refresh the screen display, e.g. CAD, video.
- ▶ Supports Color up to True Color (24 bit)
- ▶ "Copy and paste" between the X Window System and OS/2  
HOBLink X11 lets you copy and paste data between X client applications and the OS/2 clipboard and vice versa, as well as copying data direct from the clipboard into a text file.
- ▶ Emulates a Three Button Mouse  
HOBLink X11 supports any two and three button mouse that is compatible with OS/2. It also allows you to emulate a three button mouse using a two button mouse.

- ▶ Display with "Backing Store and Save Under"  
This display feature allows you to store the X Window System window "off-screen". This means that X clients do not need to refresh their windows whenever

they are hidden by another window. This results in a reduction of the data traffic on the network - meaning an increase in performance.

- ▶ Screen Saver for the X server Window
- ▶ Virtual Screen Size  
In both the single window and the full screen mode, the size of the virtual screen can be set up to 2048 x 2048 pixels. This means that the size of the X session window can be larger than your physical terminal.



- ▶ A Choice of Four Different Start Methods  
The program package offers you four different methods of establishing a connection to a host computer and of starting a remote login session:
  - ✓ Telnet Terminal Emulation
  - ✓ X Display Manager Control Protocol (XDMCP): Query, Broadcast and Indirect Mode
  - ✓ REXEC Protocol
  - ✓ RSH Protocol
- ▶ Automatic Start of X Clients  
Icons for starting X clients can be placed in any program group using HOBLink X11. The program start occurs by means of either the EXEC or the RSH protocol.



- ▶ Keyboard Mapping  
In addition to the keyboard layouts already contained in the package, HOBLink X11 allows you to define your own keyboard configurations. In the easy-to-use configuration file, you can assign any character to any key.
- ▶ Font Server  
In addition to the locally installed fonts, the HOBLink X Server can access font servers over the network and make use of the any fonts stored there.

## The Total Package for TCP/IP

- ▶ Interactive Programs for Installation and Configuration  
All X server settings for input, communication, video, color and transmission protocol can be defined at installation, but can still be changed any time thereafter.

- ▶ Telnet Terminal Emulation  
HOBLink Telnet is a flexible program that emulates DEC VT terminals. Any hosts that support the Telnet protocol can be accessed. Thus allowing you to initiate and use a remote login session. HOBLink Telnet can be started any number of times, thus allowing you to conduct sessions on several hosts at the same time.
- ▶ File Transfer via FTP and TFTP  
HOBLink includes two programs that offer you a user interface for the "File Transfer Protocol" and "Trivial File Transfer Protocol". HOBLink FTP allows you to transfer texts and binary files to numerous FTP servers including UNIX, VMS, MVS and VM. HOBLink TFTP supports the "Trivial File Transfer Protocol".
- ▶ HOBLink Ping  
The HOBLink Ping function allows you to test your TCP/IP connection.