HP95LX & Hyper Terminal for Windows 2000, XP, Vista & 7.



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Overview:

The HP95LX Palmtop factory transfer software may not run on the newer Windows OS—Windows 7. Although comparability modes can be set, there is an easier and faster way to transfer data files to/from Windows 7. Hyper Terminal has been included in Windows OS since Windows 95 and up to Windows XP. But, the same version of Hyper Terminal that was included in Windows XP can also run under Windows Vista and 7. This gives a good flexibility to transfer data files via the Kermit protocol to/from a PC. Now, the HP95LX/HP48 USB Cable has certified drivers for Windows 2000, XP, Vista and 7 and Windows CE for embedded systems. However, Hyper Terminal has only been tested in Windows 2000 and up to Windows 7.

Special Note: Linux and Mac OS X certified drivers are also available for the HP95LX/HP48 USB Cable. However, a Hyper Terminal equivalent software must be installed in Linux or Mac OS X.

Summary:

Hyper Terminal tested on:

- Windows 2000.
- Windows XP.
- Windows Vista (32 & 64 bits).
- Windows 7 (32 & 64 bits).

Under Windows 2000 and XP, Hyper Terminal is already installed by default. It can be found at: **Start > Programs > Accessories > Communications > HyperTerminal.** Now, Windows Vista and 7 do not include Hyper Terminal, but a copy of Hyper Terminal can be obtained from the following link:

http://www.myteknovo.com/oxyelectronics/digital_download/HT/Hyper-Terminal.zip

Copy and paste the link above into your browser's address bar and download the file Hyper-Terminal.zip (~200 KB).

Comparability Mode under Windows Vista and 7:

In order to run Hyper Terminal successfully under Windows Vista and 7, the comparability mode must be activated; otherwise it may not run correctly. After downloading and extracting the file **Hyper-Terminal.zip**, you will see the following three files:

- hypertrm.chm
- hypertrm.dll
- hypertrm.exe

Now, Right-Click *hypertrm.exe* and select Properties and then select the tab Comparability—See Figure 1.

General Compatibility Digital Signat
f you have problems with this program and it worked correctly on in earlier version of Windows, select the compatibility mode that natches that earlier version. Help me choose the settings
Compatibility mode
Run this program in compatibility mode for:
Windows XP (Service Pack 3)
Settings
Run in 640 x 480 screen resolution
Disable visual themes
Disable desktop composition
Disable display scaling on high DPI settings
Privilege Level
Run this program as an administrator

Figure 1—Compability Tab under Windows Vista and 7.

Select the box "Run this program..." and Select Windows XP (Service Pack 3). Then, click OK option.

Running Hyper Terminal for the First Time:

Hyper Terminal does not require any installation; it runs on-the-fly. Therefore, the following succession of screenshots applies to any Windows OS. **Run** *hypertrm.exe*:

Before you can make any phone or modem connections, Windows needs the following information about your current location. <u>W</u> hat country/region are you in now?
United States
What area <u>c</u> ode (or city code) are you in now?
If you need to specify a carrier code, what is it?
The phone system at this location uses:

Figure 2—Hyper Terminal asks for an area code, just enter any area code (Ex. 818, 310, 661, etc...) and click OK.

The list below displays the location from which you are	locations you have specified. Select th e dialing.
Location	Area Code
My Location	818

Figure 3—Here, click OK

Connection Description	
New Connection Enter a name and choose an icon for the connection: Name:	

Figure 4—Enter a name for the new connection (Ex. HP95LX).

Connect To HP95LX Enter details for the phone number that you want to dial: Country/region: United States (1) Area code: 818 Phone number: Connect using: Intel(R) 536EP Modem COM1 COM1 COM3 TCP/IP (Winsock)	
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Figure 5—Select the COM port number that was assigned to HP95LX/HP48 USB Cable and Click OK. You can refer to: Drivers Installation Tutorial → Virtual Port Number Re-Assignment section.

1	HP95LX - HyperT	erminal				
	File Edit View	Call Transfer Help	2			
	COM	A3 Properties			2 ×	
	P	ort Settings				
		Bits per second:	19200		-	
		Data bits:	8		-	
		Parity:	None			
		Stop bits:	1		-	
		Flow control:	None		-	
				Restore Defa	aults	
			K Car		Apply	
N 1						-
	Disconnected	Auto detect	Auto detect	SCROLL	CAPS NUN	A Captu

Figure 6—Set the COM properties as shown (in our testing COM3 was reassigned to the HP95LX/HP48 USB Cable, your COM number may be different). It's a good idea to keep the re-assigned COM number from 1-4. That way it can be used with the HP48 Connectivity Software v3.0.

Note: Bits per second = 19200, this is the maximum stable bitrate that was tested on the HP95LX. **The same bit-rate must be set from the HP95LX side.**

Click OK after setting the properties as shown.

Hyper Terminal is now ready to transfer data via the COM port number you selected. **HP95LX COM Port Settings:**



Figure 7—Turn ON the HP95LX and press the key COMM (if the menu is not shown, you can press the key MENU).

Select *Settings* as shown and press ENTER.

Figure 8—After selecting
Settings, the screen on the left
is shown. Select the <i>Config</i>
орион.

Note: The screen as shown already has the correct settings, but yours may not and you will need to change them.

Correct Settings:

Interface: COM1. Baud (bit-rate): 19200. Stop bits: 1. Parity: None. Character (Data bits): 8 bits.



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8/4/2012



Figure	9 —Aft	ter	sele	ting	the
Config c	ption,	the	top	menu	ı on
the left	image	is s	howı	n. Se	elect
the <i>Port</i>	option				

69	PACKARD	95LX								I BURN	100	
Hattines Baud Stop Parity Char Port: Communications Settings Port: Communications Settings Inter. 1 (COM1) Emulate None Baud & (19200) Wrap Defs Stop 1 Beksp.= Beksp. Parity None Other: Char 8 Deplex Full Parity Pore Flow None Char 5 Deplex Full Type Tone Flow None Capture: None X-late: Script:				Lan								
			-	14	15	-	172.			-		123
PRT SC ESC J SET UP	 ▲ ▲			484 F4 125	6010 F3			FB	INS DEL	HOME	PG UP PG DN	OFF ON END
PHT SC ESC SET UP FILER		FZ FZ FHONE		AHS F4 123 LOTUS	PS				INS DEL	F10 HONE		
PRT SC ESC SET UP FILER Q		E E E E E E E E E E E E E E E E E E E	HAME F3	AHS F4 123 LOTUS Y	HP CALC			FB	CALC IS INS DEL I T	HDINE		
PRT SC ESC SET UP FILER Q	₩ [[]		F3	AHS F4 125 LOTUS Y					HIS DEL T		PGUR A PGUR C O C O C O C O C O C C O C C C C	
PAT SC ESC SET UP FILER Q CTRL	M Pri → O COMM APP W E S S Z X X TX 1/x	1 1 1 1 1 1 1 R 1 R 1 C 1 C	HAME F3 MEND T1 F1 G	ABS F4 123 LOTUS Y H H LAST	HP CALC U			HARLE	HS DEL L T T T CAPS	FID HONE TI TI TI TI TI TI TI TI TI TI TI TI TI	PGUR PGUR PGUR PGUR C O O O O O O O O O O O O O O O O O O	

Figure 10—Once under the *Port* options, the Interface, Baud, Stop, Parity and Character settings can be changed.

Set each setting accordingly as shown.

Correct Settings:

Interface: COM1. Baud (bit-rate): 19200. Stop bits: 1. Parity: None. Character (Data bits): 8 bits.

Now the HP95LX is ready to Send/Receive data files.

HP95LX Sending/Receiving Data Files:

At this point, both, Hyper Terminal and the HP95LX are ready to exchange data (Send/Receive data files). To SEND a data file from the HP95LX to your PC running Hyper Terminal, follow the outlined steps:



Figure 11—Press the COMM key on the HP95XL and select the option *Transfer* and press ENTER.



Figure 12—Once under the Transfer screen, select the *Kermit* protocol and press ENTER.



Figure 13—Under the Kermit screen, select the option *Send* and press ENTER.



Figure 14—Select the data file to be transferred and press ENTER.

Note: Once ENTER is pressed, the HP95LX is SET to Sending mode. The data file must be RECEIVED from the PC side. Proceed to receive the data file with Hyper Terminal. From Hyper Terminal proceed to RECEIVE the data file that the HP95LX is SENDING. Perform the following steps:

Figure 15—Click icon Received from Hyper Terminal.



Figure 16—Under the Receive options, select (1) the folder where the data file will be saved and select (2) Kermit protocol. Finally, (3) **Click Receive** to get the data file from the HP95LX.

HP95LX - HyperTerminal	×
□ ☞ ◎ ③ ■□ ▷ ፼ □ 6 EOperation cancelled'	Click Browse and select a folder to save the data file being sent by the HP95LX.
Receive File 23 Place received file in the following folder: Use receiving protocol: Kermit 3 Receive Close Cancel	e for Folder t a Folder Homegroup Floppy Disk Drive (A:) Grouputer Group Ubsk Drive (A:) Group Ubsk Drive (A
Connected 0:10:07 Auto detect 19200 8-N-1 SCROLL CAPS NUM	Capture Print echo
2 Select the Kermit prot	tocol from the drop-down menu.

HP95LX - HyperTerminal File Edit View Call Transfer S * ' @-#N1"T canc	Help Help Kermit file receive for HP95LX Receiving: EXP Storing as: C\HP95LXEXP Packet: 32 File size: Retries: 0 Total retries: 0 Files: 1 Last error: File: 2K Elapsed: 00:00:04 Remaining: Throughput: 3660 bps Cancel Skip File cps/bps	Figure 17—When Receiving a data file, the progress screen on the left will be shown.
Connected 0:16:27 Auto detec	t 19200 8-N-1 SCROLL CAPS NUM Capture Print echo	5

To SEND a data file from Hyper Terminal to the HP95LX, perform the following steps:



Figure 18—Set the HP95LX in K-Server mode.

Figure 19—The HP95LX is running K-Server (Kermit Server) and ready to receive data files.

Proceed to send a data file from Hyper Terminal. Figure 20—Click the icon Send.

HP95LX - Hyp	erTerminal
File Edit View	v Call Transfer Help
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-	
n	Click icon Send.

older: C:\HP95L	x		_
jlename:			1
C:\HP95LX\EXP2			Browse
rotocol: 2			
V a			
Kermit			

Figure 21—(1) Select the data file to be sent to the HP95LX and select (2) Kermit protocol. Finally, click (3) Send and the progress transfer screen will appear.

Hyper Terminal for Windows is not the only software that can handle the Kermit protocol. However, it is the most simple and easy to use. As previously mentioned the HP95LX/HP48 USB cable has certified drivers for LINUX and MAC OS X. But, a software package that can handle the Kermit protocol must be installed in LINUX or MAC OS X. All testing done for the HP95LX/HP48 has been performed under Windows only.

Questions/Inquiries: Please forward them to sales@oxytronics.com