



H-DS20L

USB 2.0 Docking Station



FCC Warning

This equipment has been tested and found to comply with the regulations for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this user's guide, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his/her own expense.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

VCCI Mark Warning

注意

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準 に基づく第一種情報技術装置です。この装置を家庭環境で使用すると電波妨 害を引き起こすことがあります。この場合には使用者が適切な対策を講ずる よう要求されることがあります。

LIMITED WARRANTY

Hawking Technology guarantees that every USB Docking Station is free from physical defects in material and workmanship under normal use for two (2) years from the date of purchase. If the product proves defective during this two-year warranty period, call Hawking Customer Service in order to obtain a Return Authorization number. Warranty is for repair or replacement only. Hawking Technology does not issue any refunds. BE SURE TO HAVE YOUR PROOF OF PURCHASE. RETURN REQUESTS CANNOT BE PROCESSED WITHOUT PROOF OF PURCHASE. When returning a product, mark the Return Authorization number clearly on the outside of the package and include your original proof of purchase. IN NO EVENT SHALL HAWKING TECHNOLOGY'S LIABILTY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, ITS ACCOMPANYING SOFTWARE OR ITS DOCUMENTATION. Hawking Technology makes no warranty or representation, expressed, implied or statutory, with respect to its products or the contents or use of this documentation and all accompanying software, and specifically disclaims its quality, performance, merchantability, or fitness for any particular purpose. Hawking Technology reserves the right to revise or update its products, software, or documentation without obligation to notify any individual or entity. Please direct all inquiries to: techsupport@hawkingtech.com.

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SAFETY INSTRUCTIONS

- 1. Always read the safety instructions carefully.
- 2. Keep this User's Manual for future reference.
- **3.** Keep this equipment away from humid environments.
- 4. Lay this equipment on a reliable, flat surface before setting it up.
- **5.** If any of the following situations arise, have the equipment checked by a service personnel:
 - The equipment has been exposed to moisture
 - The equipment has been dropped and/or damaged
 - The equipment has obvious signs of breakage
 - The equipment has not been working correctly or you could not get it to work according to the User's Manual.

INTRODUCTION

Hawking Technology's USB 2.0 Docking Station is a unique expansion unit specially designed to transform a Notebook Computer into a desktop equivalent. It provides several desktop system connectivity capacities. The USB docking station allows you to add up to four USB ports to your PC and up to a total of 127 additional hubs and other devices. Installing the USB Docking Station is simple - there are no confusing cables, plugs, or IRQs (Interrupt requests) to worry about. Just plug in your peripherals and begin using them without re-booting your PC.

FEATURES

- One USB Upstream Port Supports Full Speed (480Mbps).
- Two USB Downstream Ports
- One PS/2 Keyboard Port
- One PS/2 Mouse Port
- One USB File Transfer data link port
- One Serial Port
- One Printer Port
- Standard IEEE-1284 parallel port
- The Docking Station Uses USB self power
- One 10/100 Ethernet LAN port (USB 2.0 Hi-Speed Docking Station With LAN only)



SYSTEM REQUIREMENTS

- PC or Mac
- MS Windows 98SE, ME, 2000, XP & Mac OS9.x & 10.1
- Available USB Port
- 64 MB RAM or above
- Pentium 233 MHz or higher

PACKAGE CONTENTS

- Docking Station 1pc
- DC5V Power supply 1pc
- User's Manual 1pc
- Software driver CD-ROM 1pc
- Type-A to Type-B USB Cable 1pc

SUPPORTED OPERATING SYSTEMS

- Windows 98SE, ME, 2000, XP
- Mac OS 9.x and OS 10.1

Technical Specifications H-DS20L USB 2.0 Docking Station

Туре	Docking Station With		
	LAN		
Computer Port	1 upstream port Type B receptacle		
I/O Ports	2 USB 2.0 downstream ports	, Type A receptacle	
	1 PS/2 Keyboard port Mini I	Din 6-pin	
	1 PS/2 Mouse port Mini Din 6-pin		
	1 File Transfer port Type B r	receptacle	
	1 serial port DB 9-pin male		
	1 parallel port DB 25-pin fen	nale	
	1 10/100M LAN port		
	8P8C RJ-45 shielding		
Emission	CE, FCC		
Power	AC Input 100 V~240V		
	DC Output 5V, 2.5A		
Environments	Operating temperature: 0C~7	70C	
	Storage temperature: -40C~70~C		
	Humidity: 90% RH (No cond	densing)	



LED Status Indicators

Once the USB Port Replicator is connected, the Hub Link LED is lit green and the LAN LED is lit after the Ethernet cable is connected.

Type	# of LEDs	<u>Color</u>	Descriptions
Docking	1	Red	The AC to DC power adapter is plugged
Station w/			into the power port
LAN	2	Green	When any of the hub ports, which are
			connected to USB devices, are activated.
	2	Green	The LED for your Ethernet LAN port is
			to indicate 10/100 Mbps speed.

Figure 1. USB Port Replicator Ports





Figure 2. Upstream Port and Power Connector



- Connect the power adapter and plug it into the back of the docking station.
- Find an unused electrical outlet and plug it in the power adapter.
- Plug the flat end (A plug) of the USB cable into a free USB port on your PC.
- Plug the square end (B plug) of the USB cable into the USB upstream connector located on the back of the docking station.
- At this point, Windows will automatically find the docking station and start installing its drivers. Windows will prompt you for the software. See the next section for details on how to install the software.

If you are not sure what version of Windows you are running, click on "Start", "Settings", "Control Panel", then double-click on "System." An applet will appear and provide you with your system's information.



1. Two-Port Hub

Before you connect a USB device to one of the Hub ports, please follow the software installation instructions provided in the subsequent pages of this User's Manual.

2. PS/2 ports (Keyboard and Mouse port)

If you connect a PS/2 keyboard or mouse to the docking station and you are using a PC, you will not need the software driver. However, if you are using a Mac, you will need to install the software driver on the CD-ROM onto your computer. The software drivers also allow Mac users to access PS/2 ports. To do this, please access the file name "USB PS2 Converter" which is located on the Mac directory of the CD-ROM.

3. File Transfer Port

You will need a type-A to Type-B USB cable (included in the package) for connecting two PCs, two Macs, or a PC and a Mac. For Windows, please access the root directory of the CD-ROM. For Macs, please access the file name "Installer". Please refer to the "Operation" section for further instructions/clarifications.

<u>NOTE</u>: At the time of this user's manual publication, the file transfer port supports the software drivers for Windows 98, 2000, ME, XP and Macs.

4. Serial Port

If you connect a serial port device (e.g., Modem) to the docking station and the docking station is connected to a PC, you will need to reset the upstream port. Because serial ports do not have hot plug and play interfaces, you must reset this function to locate your device on the serial port.

5. Parallel Port

You can attach your computer to most parallel printer devices through this port to get a faster printing result.

6. LAN port (only for Docking Station With LAN)

This port is designed to support 10/100 Mbps Ethernet. It also complies with the IEEE 802.3u, 100BASE-TX, and IEEE 802.3 10BASE-T standards.



Installation for Windows 98SE & ME

Add New Hardware Wiz	ard
	This wizard searches for new drivers for: USB Device A device driver is a software program that makes a hardware device work.
	< <u>₿eck</u> Next> Cancel

1. The H-DS20L Install wizard searches for new drivers. Click Next to continue.

Add New Hardware Wiz	ard
	What do you want Windows to do? Search for the best driver for your device. Recommended). Display a list of all the drivers in a specific location, so you can select the driver you want.
	<back next=""> Cancel</back>

2. Select "Search for the best driver for your device [Recommended]," and click Next to continue.



H-DS20L USB 2.0 Docking Station

Microsoft/Windows Update Specify a Jocation: F:\Drivers\Lan\WIN98 Browse
Browse

3. Select "CD-ROM drive", and click Next to continue.



4. Windows will now search for the driver file for the device. Click Next to continue.





5. Windows has finished installing the software. Click **Finish** to end the Wizard. * NOTE: Repeat the previous steps as needed.

System S	Settings Change	X
?	To finish setting up your new hardware, you must restart your comp Do you want to restart your computer now?	uter.
	Yes <u>N</u> o	

6. If your operating system is Windows ME, click **No** to continue. Otherwise, click **Yes** to reboot your computer.



InstallShield Wizard	X
	Welcome to the InstallShield Wizard for PC-Ling
	The InstallShield® \/ izard will install PC-Ling on your computer. To continue, click Next.
	<beck cancel<="" td=""></beck>

7. The "Welcome to the Install Shield Wizard for PC-Linq" dialog window appears. Click **Next** to continue.

Select Program Folder	
Please select a program folder.	(A)
Setup will add program icons to the Pr name, or select one from the existing f	rogram Folder listed below. You may type a new folder folders list. Click Next to continue.
Program Folders:	
PC-Ling	
Existing Folders:	
Accessories Administrative Tools C-Media Audio Games Intel Application Accelerator Startup	
tallShield	
	(Pack Navt) Cancel

- **8.** Setup will add the program icon to the Program Folder listed below. Click **Next** to continue.
- 9. Windows has finished installing the software. Click Finish to end the Wizard.





10. The PC-Linq icon will appear on the desktop.

Installation verification

Because the docking station is USB 2.0, the hub driver is based on the host device. The device name may vary on your host device driver.

Windows 98SE









Windows ME

System Properties	? X
General Device Manager Hardware Profiles Performance	
• View devices by type C View devices by connection	
Sound, video and game controllers System devices Universal Serial Bus controllers Generic USB Hub Intel PCI to USB Enhanced Host Controller Intel(R) 82801DB/DBM USB Universal Host Controller USB Roit Hub USB Roit Hub USB Roit Hub	22 22 22
USB-Parallel Bridge	Ţ
Properties Refresh Remove Print.	
OK (Cancel

Software Installation

H-DS20L USB 2.0 Docking Station

• View devices I	by type C	View devi	ces by <u>c</u> onne	ection
E & Keyboard				
H Monitors				
E Network	adapters			_
ASIX	AX88172 USB2	to Fast Eth	ernet Adapte	8
Dialt	Ip Adapter			
- III) Intel(i	R) PRO/100 VE	Network Co	onnection	
E- J Ports (CO	M & LPT)			
- J Com	nunications Port	(COM1)		
- J Com	nunications Port	(COM2)		
V FCP	Printer Port (I PT	1)	1	
USB	to Parallel Port (I	LPT2)		
USB USB	to Serial Port (Cl	JM3J		
Sound, Vi	ideo and game o aviceo	controllers		
Universal	Serial Rus contr	rollers		_
	00101000010	00010		•
1	-	1 .		



Installation for Windows 2000

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
1º	To continue, click Next.
	< Back Next > Cancel

1. The H-DS20L Install wizard helps you install a device driver. Click Next to continue.



2. Select "Search for a suitable driver for my device [recommended]." Click **Next** to continue.



Found New Hardware Wizard			
Locate Driver Files Where do you want Windows to search	for driver files?		
Search for driver files for the following ha	rdware device:		
Generic USB Hub			
The wizard searches for suitable drivers any of the following optional search loca	in its driver database tions that you specif	e on your comput	er and in
To start the search, click Next. If you are insert the floppy disk or CD before clicking	e searching on a flop ng Next.	opy disk or CD-RC	OM drive,
Optional search locations:			
Floppy disk drives			
CD-ROM drives			
Specify a location			
Microsoft Windows Update			
	< Back	Next >	Cancel

3. Select "Floppy disk drives" and click Next to continue.



4. The wizard found a driver. Click Next to continue.



				1	? ×
G drivers	2	•		•	
☐ disdn ☐ etc usbhub20.sys					
File name:	usbhub20.sys		•	Open	
Files of type:	usbhub20.sys;usbhub20.sy_	_	7	Cance	-

5. Select "C:\WINNT\system32\drivers" for built-in hub driver (usbhub20.sys). Click **Open** to continue.



6. Click OK to continue.



Found New Hardware Wizard	
	Completing the Found New Hardware Wizard
	Windows has finished installing the software for this device.
	To close this wizard, click Finish.
	< Back Finish Cancel

7. Windows has finished installing the software. Click **Finish** to continue.

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for a hardware device.
	To continue, click Next.
	< Back Next > Cancel

8. This wizard helps you install a device driver. Click Next to continue.



Found New Hardware Wiza	d			
Install Hardware Devic A device driver is a sof an operating system.	e Drivers ware program that enabl	es a hardw	are device to work	with
This wizard will comple	e the installation for this r	device:		
AX88172				
A device driver is a sof needs driver files for yo installation click Next.	ware program that make .r new device. To locate	s a hardwar driver files	e device work. Wir and complete the	ndows
What do you want the	wizard to do?			
Search for a suit	able driver for my device	(recommer	ided)	
C Display a list of t driver	ne known drivers for this	device so t	hat I can choose a	specific
		< Back	Next >	Cancel

9. Select "Search for a suitable driver for my device [recommended]." Click **Next** to continue.

Where do you want Windows to see	arch for driver files?
Search for driver files for the followin	ng hardware device:
AX88172	
The wizard searches for suitable driv any of the following optional search	vers in its driver database on your computer and in locations that you specify.
To be different of the bill of M	1: / / / CD DOLL !!
insert the floppy disk or CD before cl	u are searching on a floppy disk or LD-HUM drive, licking Next.
o start the search, click Next. If you insert the floppy disk or CD before cl Optional search locations:	u are searching on a floppy disk or LU-HUM drive, licking Next.
O start the search, chck Next. If you insert the floppy disk or CD before cl Optional search locations:	u are searching on a floppy disk or UD-HUM drive, licking Next.
o start the search, click Next. If you insert the floppy disk or CD before cl Optional search locations: Floppy disk drives CD-ROM drives	u are searching on a floppy disk of LD+HUM drive, licking Next
To start the search, click Next, II you insert the floppy disk or CD before cl Optional search locations: ☐ Floppy disk drives ☑ CD-ROM drives ☑ Specify a location	u are searching on a floppy disk of UD-HUM drive, licking Next
To start the search, click Next. If you insert the floppy disk or CD before cl Optional search locations:	u are searching on a floppy disk of UD-HUM drive, licking Next
To start the search, click Next. If you insert the floppy disk or CD before clic Optional search locations:	u are searching on a floppy disk or UD+HUM drive,

10. Select CD-ROM drives and click Next to continue.



The wid	zard found a driver for the following device:	
Q	AX88172	
Dr.	un farmad a deirar far Hair da rinn. Ta install the deirar (1/6-daure	formed allals March
WINDO	AS TOURID & UNVELTOR DRIES DEVICE. TO INSUMITIVE UNVEL WINDOWS	TOURIO, CIICK MERI.
	f:\ax88172.inf	
2	1. SHOULD 1.1 A.M.B.	

11. The wizard found a driver. Click Next to continue.

Found New Hardware Wizard	
	Completing the Found New Hardware Wizard ASIX AX88172 USB2 to Fast Ethernet Adapter Windows has finished installing the software for this device.
	To close this wizard, click Finish.
	< Back Finish Cancel

12. Windows has finished installing the software. Click **Finish** to continue. * NOTE: Repeat the previous steps as needed.



InstallShield Wizard	X
	Welcome to the InstallShield Wizard for PC-Ling
	The InstallShield® Wizard will install PC-Ling on your computer. To continue, click Next.
	KBeck Cancel

13. The "Welcome to the Install Shield Wizard for PC-linq" dialog window appears. Click **Next** to continue.

InstallShield Wizard	×
Select Program Folder	
riease select a program rolder.	
Setup will add program icons to the Prog name, or select one from the existing fol	ram Folder listed below. You may type a new folder ders list. Click Next to continue.
Program Folders:	
PC-Ling	
Existing Folders:	
Accessories Administrative Tools C-Media Audio Games Intel Application Accelerator Startup	
InstallShield	<back next=""> Cancel</back>

14. Setup will add the program icon to the Program Folder. You may type a new folder name, or select the default folder name. Click Next to continue. The PC-Linq icon will appear on the desktop.

Note: If you connect the docking station to a PC via a USB 2.0 port, PCI card, or hub, it will ask for the operating system for the USB 2.0 driver.



Installation verification

Because our docking station is USB 2.0, the hub driver is based on the host device. The device name may vary on your host device driver.

Windows 2000





Installation for Windows XP



1. The H-DS20L Install wizard helps you install a device driver. Select "Install the software automatically [Recommended]." Click Next to continue.

1	The software you are installing for this hardware:
-	ASIX AX88172 USB2 to Fast Ethernet Adapter
	has not passed Windows Logo testing to verify its compatibility with Windows XP. (<u>Tell me why this testing is important.</u>)
	Continuing your installation of this software may impair or destabilize the correct operation of your system without immediatoly or in the future. Microsoft strength
	recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.

2. Click Continue Anyway.



Found New Hardware Wiz	ard
	Completing the Found New Hardware Wizard The wizard has finished installing the software for: ASIX AX88172 USB2 to Fast Ethernet Adapter
	Click Finish to close the wizard.

3. The wizard has finished installing the software. Click **Finish** to continue. * NOTE: Repeat the previous steps as needed.

nstallShield Wizard	×
	Welcome to the InstallShield Wizard for PC-Ling
	The InstallShield® Wizard will install PC-Ling on your computer. To continue, click Next.

4. The "Welcome to the Install Shield Wizard for PC-linq" dialog window appears. Click **Next** to continue.

2	H-DS20L USB 2.0 Docking Sta
allShield Wizard	X
slect Program Folder Please select a program folder.	
Setup will add program icons to the Program Folder listed below. You may type a new name, or select one from the existing folders list. Click Next to continue.	folder
Program Folders:	
Existing Folders:	
Accessories Administrative Tools C-Media Audio Gamen	-

5. Setup will add the program icon to the Program Folder. You may type a new folder name, or select the default folder name. Click Next to continue.

Cancel

USB 2.0 Docking Station

The PC-Linq icon



< Back

Next >

will appear on the desktop.

Note: If you connect the docking station to a PC via a USB 2.0 port, PCI card, or hub, it will ask for the operating system for the USB 2.0 driver.



Installation verification

Because the docking station is USB 2.0, the hub driver is based on the host device. The device name may vary on your host device driver.

Windows XP



Software Installation

H-DS20L USB 2.0 Docking Station

🗒 Device Manager	- D X
File Action View Help	
←→ Ⅲ 27 49 12 33	
🖻 🥪 Disk drives	~
E B Display adapters	
E S DVD/CD-ROM drives	
E 🖶 Floppy disk controllers	
E Sppy disk drives	
DE ATA/ATAPI controllers	
Keyboards Keyboards Keyboards	
Monitors	
- III Metunak adaptar	
ASIX AX88172 USB2 to Fast Ethernet Adapter	
Intel(R) PRU/100 VE Network Connection	
🖃 🞐 Ports (COM & LPT)	
 <i>J</i> Communications Port (COM1) 	
— J Communications Port (COM2)	
ECP Drinter Port (LPT1)	
Prolific USB-to-Serial Comm Port (COM3)	
Processors	
Sound, video and game controllers	
System devices	
H 핵 Universal Serial Bus controllers	M

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