

INTRODUCTION

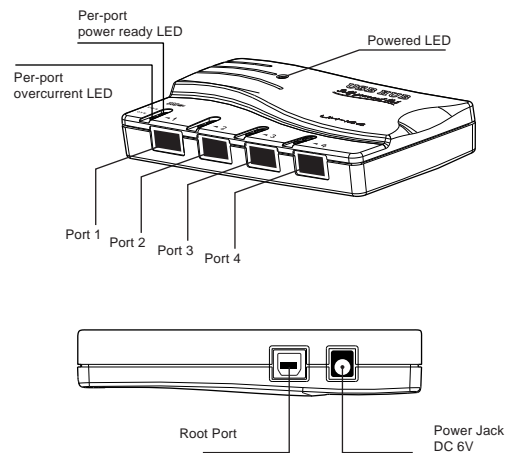
Overview

The UH-144 is an Universal Serial Bus (USB) hub, which is a USB cable concentrator and a bridge between PC USB Host Controller and USB devices. UH-144 is a full speed USB hub. UH-144 provides one upstream port and four (or seven) downstream ports to user. It supports both full speed (12M bps) and low speed (1.5M bps) devices, such as keyboard, mouse, joystick and etc. UH-144 provides both Self-powered and Bus-powered modes. UH-144 has per-port overcurrent detection LEDs, as well as the per-port power ready LEDs for user. The detailed specifications please refer to the section of "Specification".

System Requirement

- (1) Windows 95 OSR 2.0 above or Windows 98.
- (2) Your PC must have USB Host controllers inside the H/W system.

Description



1

Features

- UH-144 supports both OHCI (Open Host Controller Interface) and UHCI (Universal Host Controller Interface).
- UH-144 provides four downstream ports.
- Both Self-powered mode and Bus-powered mode are supported and the power mode is auto selected.
- Per-port overcurrent detection and protection.
- Per-port power ready and overcurrent LEDs indicators.
- A real Plug & Play and Hot-plugged device.

Specification

FUNCTION	DESCRIPTION	
Upstream Port (Root Port)	1	
Downstream Port	4	
LED	Self-Power/Bus-Powered	1
	Downstream Power-Enabled	4
	Overcurrent Detection	4
Per-Port Output Voltage	DC+5V	
Per-Port Output Current	500mA (max.)	
Operation Temperature	5°C ~ 40°C	
Stock Temperature	-20°C ~ 60°C	
Humidity	0% ~ 80% RH, noncondensing	
Enclosure	Plastic	
Weight	100g	
Dimensions (L X W X H)	130 X 70 X 24 (mm)	

Note : Static electricity may cause an abnormality in UH-144's operation. Please reset the device if the above occurs. (unplug and re-insert the upstream connecting cable)

2

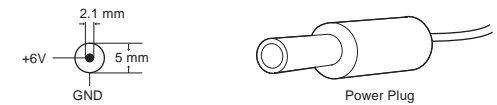
Power Mode Setting

There are two power modes for UH-144, one is the Self-powered mode and the other is Bus-powered mode. For Self-powered mode UH-144 provides all the downstream ports with each port DC +5V, 500mA (max.) power supply. For the Bus-powered mode, UH-144 only provides all four downstream ports with DC +5V, 500mA in total. In Self-powered mode please make sure that the power adapter is well installed and the plug of Power Adapter is inserted into the Power Jack of the UH-144. The powered mode is auto selected while you insert (or remove) the plug of the power adapter into (or from) the power jack of UH-144.

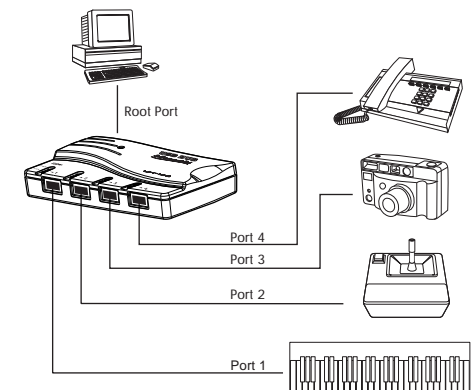
Note : In the mode of cascading many UH-144 Hubs, the upper layer of the Hubs must always be set into the Self-powered mode. Only the lowest layer of the Hubs can be set into Bus-powered mode.

Power Adapter

The Power Adapter attached with the UH-144 is DC 6V, 1A (min.) which is a minimum requirement for the device. If user needs more power to supply the downstream port devices, user can purchase a new Power Adapter with the Spec. of DC 6V, 2A. The mechanical of Power Adapter is listed in the follow figure.



Sample Diagram



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Install the Hardware

- A. First of all, please insert the plug of the DC 6V 1A power adapter into the power jack of UH-144.
- B. Connect the series-A connector (please refer to the Figures-1) of the USB cable into the downstream port of PC USB host controller (or ROOT hub) or one downstream port of the upper level (parent) hub.
- C. Connect the series-B connector (please refer to the Figure-2) of USB cable into the upstream port of UH-144, the USB hub.
- D. Connect the series-A connector of USB device, such as

Figure-1

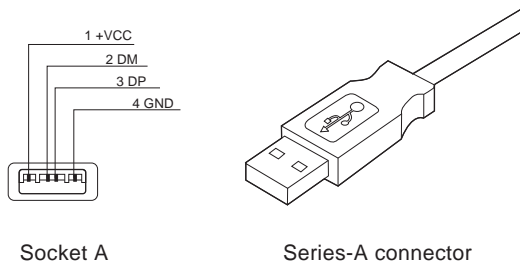
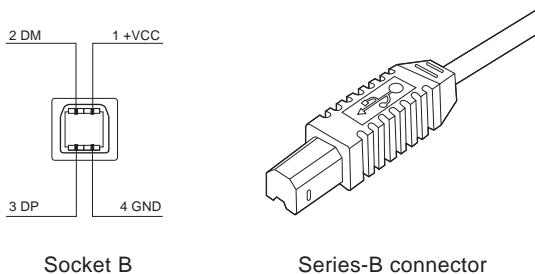


Figure-2



Limited Warranty

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and specially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

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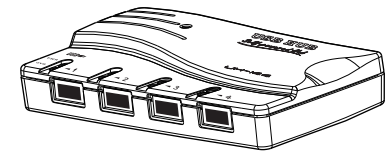
Preventing Radio & TV Interference

This equipment has been tested and found to comply with the limits 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

Product Introduction

Portable storage series	The most easily way to expand your PC system via parallel port and no LPT por is occupied. Include : for 2.3", 3.5" size Hard Disk and 5 1/4" size CD-ROM models.
Video splitter series	The simplest solution for image duplication, cascade ability allows infinite numbers of VGA monitors display the same image. Include : 1 to 16 Rack mount 1U model, 1 to 2/4/8 desktop models, 1 to 5 for MAC users.
CPU switch series	Enable one set of console, a keyboard, a monitor and a mouse, to control multiple CPUs. Includes : 1 to 2/4/6 models for PC/AT and PS/2 system and 1 to 4/8/16 Rack mount 1U or 2U models.
Printer network series	Enable multiple users to share multiple printers at the same time. Include : Centronics (parallel) & PS-232 (serial) models and they can be intermixed in a network.
Converter series	The ability to cvnrter one type of signal to another.
Switch buffer series	A variation of the basic Auto Switch, in the mean time, sends data to printer, which cuts delay and wait time. Include : 2/4/8 to 1, 4 to 1/2 parallel models, buffer card has 256K, 1M, 2M bytes for your needed.
Auto switch series	Let you share your peripherals. Include : 2/4/8 to 1/2 bi-tronics may have file transfer, reversible, parallel or serial, 4 to 1 for MAC models. Bi-tronics parallel port has become a standard in the HP LaserLet IV series. It is compatible with Centronics parallel, yet provides enhanced features such as bi-directional communication higher data throughput and printer control. Reversible function help to solve the problem between multiple user and multiple peripherals at minimum cost.

Manual Part NO. PAPE-1121-100



USER'S MANUAL

UH-144

Please read this manual thoroughly and follow the instruction procedures to prevent any damage to the UH-144 and or the connecting devices.

THIS PACKAGE INCLUDES

- One USB Hub UH-144
- One USB Cable (6 feet)
- One Power Adapter DC 6V ,(2.1A)

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