

Connect Any Parallel Printer To Your Universal Serial BUS (USB) Port CE Model USBP10



General Information

B&B's Model USBP10 is a Universal Serial Bus (USB) port to Parallel port converter. It is essentially a "Smart Cable" that, using hardware and software, provides intelligent and transparent protocol conversion between USB on the PC side and IEEE-1284 Parallel on the printer side. It will allow any Windows PC with an enabled USB port to print to any parallel printer.

Features

- Software drivers included for Windows 95 OSR2.1 and Windows 98
- Fully Plug and Play compatible
- Can print in any application running under Windows 95, including DOS apps.
- USB "A" connector on one end, and Centronics "B" connector on the other end
- 2 meters (6.5 ft.) shielded USB cable
- VLSI logic integrated into the Centronics connector performs protocol and electrical level conversion between USB and IEEE 1284 Parallel
- Compatible with USB hub devices
- Compatible with virtually all parallel printer devices
- Transparently negotiates the highest levels of 1284 the printer supports (Compatible, Nibble, and ECP modes)

Installation

The Model USBP10 requires an enabled USB port on the host computer. If you are unsure if the computer has an enabled USB port please consult the Trouble Shooting guide on the next page.

If the model USBP10 Smart Cable has never been installed on the PC before, then go to the following NEW INSTALLATION section. If an installation has been completed or attempted previously, then follow the instructions in the OVERWRITE PREVIOUS INSTALL section followed by the instructions in the NEW INSTALLATION section.

This disk contains drivers for use with Windows 95 OSR 2.1 (Build 1214) and Windows 98 installation.

OVERWRITE PREVIOUS INSTALLATION OF 1.x VERSION SOFTWARE

1. Unplug the ISD Smart Cable from the PC.
2. Run the Cleanup.exe program. Reboot the PC when prompted to do so by the Cleanup application. If you go ahead and reboot when prompted, you will not need to reboot at Step #1 of the following NEW INSTALLATION procedure.
3. Do not plug the Smart Cable into your PC yet. This is covered in the following NEW INSTALLATION section.

New Installation

1. Make sure the Smart Cable is NOT plugged into your PC. Reboot your PC at this time.
2. If applicable, plug the Smart Cable into your printer.
3. Plug the Smart Cable into the PC now. Windows will inform you that it has detected new hardware and is installing software support for it. It may prompt you for the Win95/98 CD. Insert the installation disk for the model USBP10 into drive A (or B). For Windows 95 users change d:\win95 to a:\windows95\. For Windows 98 users change d:\win98 to a:\windows98\
5. Remove the floppy diskette from the PC after the Plug and Play system has finished.
6. Reboot the PC.

The Smart Cable will come up as LPTUSBx (where x can be any number between 1 and 127) in the **Device Manager** under ISD USB Smart Cable

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Troubleshooting

1. First check to make sure the version of Windows 95 is 'B'
Click the right button of the mouse on **My Computer**
Click the left button of the mouse on **Properties**
Should be
System: Microsoft Windows 95
4.00.950 b
If it does not say "b" it is version A and does not support USB
2. Check for enabled USB Port installed
Under **My Computer/ Properties** click on the **Device Manager** tab to see if the USB port is enabled under *Universal Serial Bus controller*. If there is no USB controller listed the computer needs to be restarted. During boot up the BIOS must be changed to enable the USB port. Consult your system manual for instructions. When Win95 starts it should then detect new hardware and ask for the device drivers from the Windows 95 disk.
3. Check for Build 1214 or newer version of Win95
If nothing happens when the cable is plugged into the USB port, the version of Win95 B is older than build 1214.
First remove the existing USB drivers
Remove *Intel 82371SB PCI to USB Universal host controller* from the **Device Manager**
Remove USB driver from **ADD/REMOVE PROGRAM**
This removes the files added by the USBP10 installation. You must contact your computer distributor to get the newest version of Windows 95 or a patch to update your current version to OSR2.1 (build 1214).
4. Uninstall older versions of the Smart Cable driver
If the new device is detected but will not finish the install program, this means that there is an old version or a partial version of the USB to Parallel cable driver still installed. Cancel the install program. Next run CLEANUP.EXE. This will remove all old forms of the driver.

Specifications

Connectors

USB side: USB "A" connector
Parallel side: IEEE 1284 "B" connector

Temperature Limits

Operating: 0 to -70 C
Storage: -55 to 125 C

Power Requirements

Input Voltage: 4.75 V to 5.25 V
Minimum voltage at enumeration: 4.0 V
(Note the USB Smart Cable is a bus powered device; it does not need separate power.)

Power Consumption

During operation: 38 mA.
During suspend mode: 650 µA.

Weight: 140 grams (5 ounces)

Conformity

The USBP10 has been tested to meet the following:
EN55022 (CISPR 22 B to ANSI C63.4)
EN50082-1 (Light Industrial Immunity) which uses the ESD Standard IEC 801-2 1984
FCC B

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