USB-2+
INSTALLATION GUIDE

Overview of the USB PortServer

The USB-2+ is the smart way to connect serial or parallel devices to a PC or workstation. Each $USB-2+$ provides two high speed ports (up to 230 Kbps) and one bi-directional parallel port through the USB port on your machine. The USB-2+ is fully compliant with USB Specification Version 1.0.

Unpacking the Product

Inspect the shipping carton for any damage. If the contents are damaged, report this immediately to the carrier, who will instruct you on how to file a damage claim. Contact us if the product has been damaged. Be sure to save the shipping carton and all of the packing materials, in case you ever need to reship the product in the future.

How to Contact Central Data

INSTALLING THE USB PORTSERVER

1. Turn on the Host PC and boot up the operating system.

2. Insert the Central Data driver diskette or CDROM.

3. Plug the free end of the USB cable into the USB port of your Host PC, or into the downstream port of a USB Hub.

4. The LED will light as soon as the $USB-2+$ is connected to the Host, indicating that the connection with the Host is sound and that the $USB-2+$ self-tests have been successful.

5. If the LED does not light or if it blinks continually, disconnect and reconnect the cable. If this does not solve the problem, notify Central Data technical support.

6. The first time you attach the USB-2+ to your machine, the machine will immediately start installation of the driver.

7. Now you may attach devices to any of the ports on the $USB-2+$. Use the cabling information provided below. Each serial port will be mapped as COMx; the parallel port will be mapped as LPTy.

8. The LED will normally remain lit unless the $USB-2+$ driver is placed in "suspend mode."

9. To update your $USB-2+$ driver in the future, click the Start button on your screen, choose Settings, then Control Panel, and then System. Open the Device Manager tab and expand "USB serial bus controller." Select Central Data USB-2 and click "Property" button. Open Driver tab and click "Update Driver." You will then need to reboot your machine.

PARALLEL PORT CABLING

You can use a standard Centronics printer cable to attach to your printer. Use shielded cables with at least 85% coverage to ensure that the unit satisfies all radio frequency emission requirements.
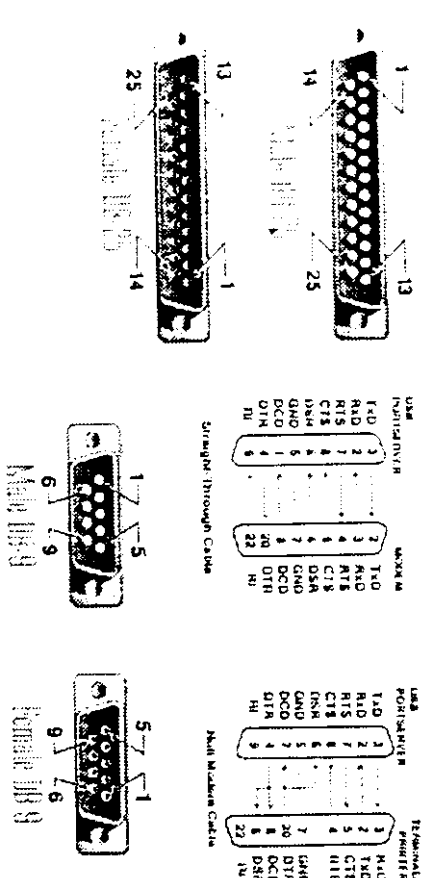
RS-232 CABLING

RS-232 serial devices are designed as either Data Terminal Equipment (DTE) or Data Communications Equipment (DCE). Terminals, serial printers, PC ports, and the USB -2+ ports are DTE devices. Modems are DCE devices. The signal names and pin numbers for each type of device are the same, the only difference is whether each signal is input or output. The RS-232 ports on your $USB-2+$ are DTE type, just like normal PC serial ports.

Signal	DB-9 Pin	DB-25 Pin	DTE Use	DCE Use
DCD	1	8	input	output
RxD	2	3	input	output
TxD	3	2	output	input
DTR	4	20	output	input
GND	5	7	ground	ground
DSR	6	6	input	output
RTS	7	4	output	input
CTS	8	5	input	output
RI	9	22	input	output

Most RS-232 devices will work with one of the two cable configurations shown below. The straight-through cable is normally used for modems or other DCE devices. The null modem cable is used when connecting to terminals, printers, or other DTE devices. Shielded cables with at least 85% coverage must be used to ensure that the unit satisfies all radio frequency emission requirements.

Environmental Specifications

Operating Temperature: 0 C to 40 C
Storage Temperature: -25 C to 75 C
Operating or Storage Humidity: 0 to 95% non-condensing
D.C. Power Requirements (maximum, supplied by host):

100 mA (0.5VA) (power-up mode)
200 mA (1.0VA) (active mode)

Physical Characteristics

Height   1.0 in (2.5 cm)
Width   2.4 in (6.0 cm)
Depth   4.0 in (10.0 cm)
Weight   37 lbs. (0.17 kg)

Before Returning Your USB-2+ to Us

Always contact us to request an RMA number before sending anything back. Please have the model and serial numbers for the product ready before you call (the serial number is on a bar-coded label). Pack the unit carefully before shipment to one of the following addresses:

Outside Europe:
(See contact methods on the front of this card.)

Central Data
RMA# _____
1602 Newton Drive
Champaign, IL 61821-1098

In Europe:
Phone: 31.182.539144
Fax: 31.182.570070
DIS B.V.
Harderwijkweg 2
2803 PW Gouda
The Netherlands

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 environment. 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. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this unit not expressly approved by Central Data could void the user's authority to operate the equipment. This digital apparatus does not exceed the Class B limits for radio noise emissions as set out by the ICES-003 standard, of the Canadian Department of Communications.

Cet appareil numerique n'emet pas de bruits radioelectriques depassant les limites de Classe B prescrites dans la norme NMB-003 edictee par le ministre des Communications du Canada.

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