
Technman Electronics LTD

4501 Barcode Memory Module

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Overview

The 4501 barcode memory module provides you with the flexibility to take your existing PS/2 barcode scanner anywhere. Coupled with a long – lasting battery and a large reliable memory, the 4501 unit is the perfect solution for many shop-keeping tasks. In addition, the 4501 unit is extremely simple and thus easy to use. The 4501 does not depend on radio transmission or any base station for operation. Therefore, you can take the 4501 unit into freezers, outdoors – just about anywhere you can think of.

When you have finished scanning, you simply connect the 4501 to your computer's serial port and download the reader's memory via the windows application provided. The output of this program is in the widely recognized and compact .CSV format that by many applications support, including Excel. From here, it is easy to create your own formulas and graphs. Alternatively, you could import this file into your own custom software solution.

Protected by a durable flame-retardant ABS case, The 4501 Scanner module can survive several one-meter drops onto a concrete floor. It operates over a large temperature range and features a high-contrast, backlit display for low-light conditions. The 4501 scanner module has also passed the most rigorous electrical testing. Complying with CE mark electrical emission standards, the 4501 will not interfere with (or be disrupted by) your other electrical equipment



Features

- Rugged, ergonomic design allows you to scan barcodes all day.
- Operation is simple so training is quick and effective.
- Huge storage (up to 120,000 barcodes), with an integrated, rechargeable battery allows you to operate beyond the 8 hour shift.
- Product is protected by a three year warranty on parts and labour.
- Standard PS2 connector allows you to enter barcodes using existing PS2 scanners or PS2 keyboards.
- Download into a versatile spreadsheet format allows easy processing of barcodes.
- Your investment is minimal, reducing your replacement costs. Save over 40% compared with other barcode systems.
- Total freedom of movement - not tied down to the computer.
- A simple to use system to meet all your needs.

How to capture data



1. Connect your PS2 Scanner to the round PS2 connector on the side of the 4501 unit
2. Press the ON key to power on the 4501 Barcode scanner module
 - a. You will see the number of scans in memory shown on the screen. If you wish to erase previous scans, connect to a computer as detailed below.
 - b. If the battery is low, this is indicated on the display. Please recharge this unit.
 - c. Once the unit is ready for use, it will say “Reader ready, please scan now”.
3. If you wish, strap module to your arm for easy use.
4. If using a scanner, start by scanning a barcode. Alternatively, key in a barcode using the keyboard on the 4501 barcode scanner and press enter
5. The barcode is now shown on display, with a request for a quantity to be entered. This quantity defaults to 1 unit, but you can type in any quantity you like, up to a maximum of 4 million. Press enter when you have entered the correct quantity, or simply scan another barcode.
6. If you simply scan the same barcode several times, the quantity is increased by one each time. Thus if you have three identical cans of soup, you can scan each one once, scan one of them three times, or scan one of them once and type in “3”.

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7. To erase any mistakes you might make, use the backspace key. You can even erase the entire barcode by holding down this key (which cancels the scan totally).
 8. To turn off the unit, first ensure the unit is ready to scan, then press the “Off key”. The unit will also turn off automatically after 5 minutes if not used. Data is automatically saved.

How to retrieve data:

Computer download

1. Plug communications lead into right hand side of the 4501 module and into the Serial port of the computer. Ensure that the 4501 is turned on.
2. Run 4501 download software on the PC, select the correct comport and press the download button. The download progress will be shown on the barcode reader display.
3. An output file will be created for you which contains all the barcodes you scanned, sorted by the order in which you scanned them. You now have the option of viewing it in your computer's default CSV viewer. This is likely to be Excel if you have Microsoft office installed.
4. If you are satisfied with the download, and you want to erase the contents of the barcode memory module, press the erase button on screen.
5. Disconnect the 4501 module from the PC. You are now ready to resume normal operation with the 4501 module.

Connection Type Options

1. **PC RS232 Interface**

As a serial interface, the Control-It 4501 connects directly to your PC. Many modern computers have serial ports.

2. **USB**

Using our "Control-It 5502" USB to Serial converter, you can add a serial port to your computer via the USB system. This is useful for many modern laptops that do not have serial ports. You then connect the barcode module to this serial port.

3. **ETHERNET**

Using our "Control-It 5601" Ethernet to Serial converter, you can add a serial port to your computer via TCP/IP. This potentially means that the barcode module can be connected to your Ethernet from the other side of the building or further.

Specifications:

Memory:

2 Megabyte flash memory, Expandable to 4 Megabyte.

Bar Codes:

The 4501 supports the same barcode types as your scanner, as the scanner does all the barcode decoding. Compatible scanners are available that support the following bar code types (among others): Code 39, Extended Code 39 (full ASCII), Interleaved 2 of 5, UPC-A, UPC-E, EAN-8, EAN-13, UPC & EAN supplements, Code 128, Code 93, Code 11, Codabar, MSI/Plessey and Bookland EAN.

Protocols:

1: RS232 , 115k Baud , 8Bit , No Parity

2: Keyboard wedge , IBM AT (with an adapter) or PS/2

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| Case Dimensions | 150 x 90 x 50 mm | |
| Weight | 350g with batteries | |
| Colour | Black | |
| Storage temperature | -20° to 70° C (-4° to 158° F) | |
| Operating temperature | 0° to 50° C (32° to 122° F) | |
| Humidity | 15 to 90% relative non condensing | |
| Enclosure | ABS flame retardant plastic case | |
| Power | 2 Lithium ion rechargeable batteries, 1850MAH | |
| Connectors | RS232 | DB9 female for download to pc |
| | PS2 | IBM AT or PS2 for barcode reader download |
| Operating Environment | Indoor & outdoor use with reasonable care | |
| Data rates | 115 kbps | |

Declaration of Conformity 2004

Manufacturer's Name: Technman Electronics Ltd
Manufacturer's Address: PO Box 302 107
North Harbour, Auckland 1311, New Zealand

declares that the product

Product name: 4501 Portable Barcode Memory Module

Model numbers: 4501

Product options: All

conforms to the following product specifications:

EMC Regulations: EMC Directive 89/336/EEC 3 May 1989 and 92/31/EEC 28 April 1992,
article 10.1.
EN 55022:1998 Class A Device
EN 55024:1998 I.T. Equipment
EN 50082-2:1995 Generic Industrial Device

The product herewith complies with the requirements of the following Directives and carries the CE marking accordingly:

EMC Directive 89/336/EEC

The product was tested in a typical configuration with a personal computer system.

For compliance information contact:

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