

*... First choice of Professional Systems Integrators ...*

# **Unique Micro Design**

## **Model 317 Universal Serial Bus (USB) Cash Drawer Trigger Module**



Document Reference : DOC-M317-UM

UMD Part Number : 6-0317-993-6

Issue : 1

03/05/01

*First choice of  
professional systems integrators*

**Unique Micro Design Pty Ltd ( ACN 007 419 490 )  
16 Nyadale Drive, Scoresby, Victoria 3179,  
Australia  
<http://www.umd.com.au>**

**Tel: +61-3-9764-8166  
Fax: +61-3-9764-8177  
Email: [umd@umd.com.au](mailto:umd@umd.com.au)**

Revision History

Date	Issue	Comments
03/05/01	1	First Issue

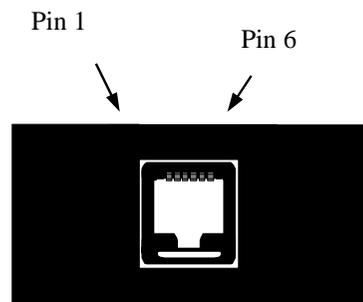
### 4. Specifications

Dimension	Interface Module: 80 (h) x 40 (w) x 25 (h) mm
Weight	63 grams (including cable)
Color	Black
Computer Interface	USB V1.1 & USB HID Class V1.0
Power	100mA ( max ) 500uA (Suspend mode)
Cash Drawer	Connector: RJ12
	Rating: suits 10 - 36 Ohms solenoid ( 24 Volts @ 1 Amp)
	Repeat rate: 5 - 7 seconds
Indicator	Green LED (showing discharge)

### Status LED

The Status LED provides visual indication of the M317 output operating.

### 3. Connector Information .



6 x 6 Modular Output Connector  
Front view

Pin Number	Function
1	NC
2	Sol -
3	Status
4	Sol +
5	NC
6	GND

## 1. Introduction

This manual provides basic information about the Unique Micro Design Model 317 Universal Serial Bus (USB) Cash Drawer Trigger Module.



The UMD Model 317 External Trigger Module is designed to provide USB interfacing to the UMD range of "base" or "solenoid" based cash drawers. This allows cash drawers, previously attached to POS printers and cash registers, to be connected to a USB port.

The M317 USB Trigger Module uses a Virtual Serial Port Driver, making it appear to software like a standard RS232 Serial Port. This way existing POS Software can communicate with the USB Cash Drawer Trigger as though connected to a Serial Port. A unique serial number is assigned to each USB Trigger Module and the Driver Software will assign the next available Serial Port to each device it recognises (multiple Triggers can be used on one PC).

The interface module is designed to accept modular cash drawer connectors and is USB Bus powered. All standard POS printer drawer open commands are used to trigger the device and the ESC/POS status command is also available to read the drawers open or closed condition.

The M317 is also OPOS Compliant.

### 3. Operation.

The M317 uses a Virtual Serial Port Driver – which makes the USB port look and act as a Serial Port using the Settings – 9600 Baud, 8 Bits, no Parity, 1 Stop bit, Hardware Flow Control.

This way existing POS Software can communicate with the USB Cash Drawer Trigger while being virtually connected to a Serial Port.

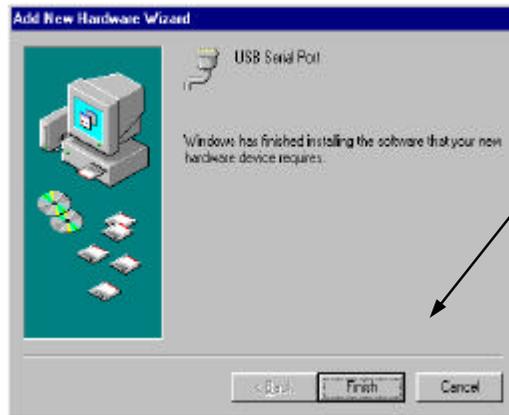
A unique serial number is assigned to each M317 and the Driver Software will assign the next available Serial Port to each device it recognises (multiple M317’s can be used on one PC).

The following commands, when sent to the allocated virtual port, can be used to trigger the M317.

Command	Hex	Description
<b>Open Commands</b>		
^G	07	Citizen ‘Open Cash Drawer 1’
ESCp0	1B,70,0	Epson ‘Open Cash Drawer 1’
CC 1(CR)	43,43,20,31,0D	Protolink ‘Open Cash Drawer 1’
<b>Commands to obtain information from M317</b>		
DG 2(CR)	44,47,20,32,0D	Protolink ‘Dump Firmware Version’
GSaFF	1D,61,FF	Epson ‘Enable Automatic Status Back’



Windows finds the USB Serial Port driver for the virtual serial port.



Select "next" and then "finish"

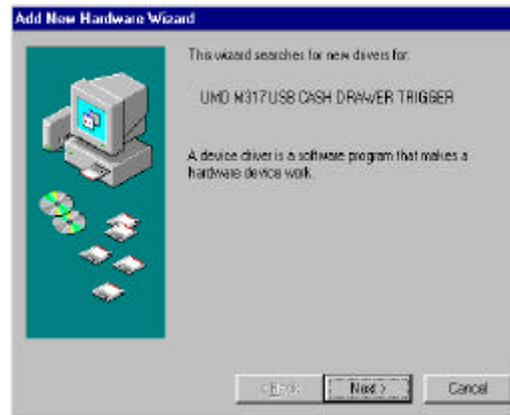


Checking "System Properties" under "Device Manager" - "Ports", the port allocated to USB serial port is shown, this varies depending on the number of serial ports in the PC.

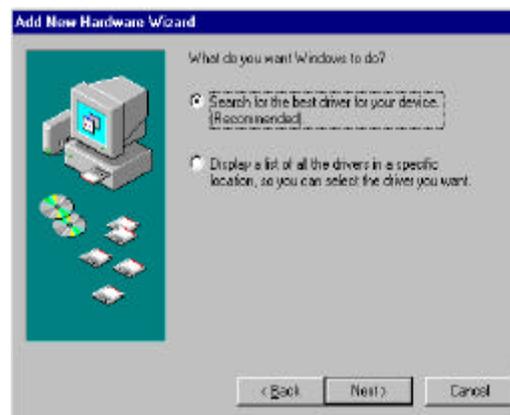
## 2. Setting Up Information .

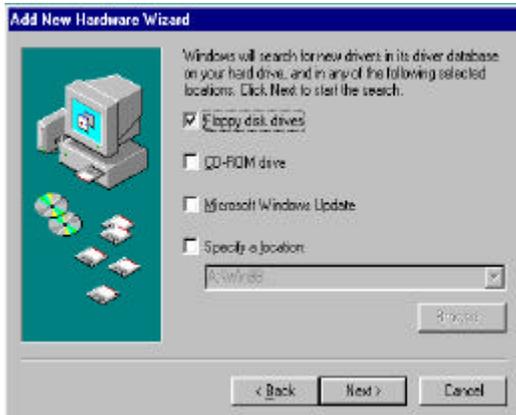
When installing The Unique Micro Design Model 317 USB Cash Drawer Trigger Module for the first time the driver disk is required. Windows will install two devices, a USB high speed serial converter ( M317 Cash Drawer Trigger ) and USB serial port ( virtual "com" port ).

Insert driver disk into the floppy drive on your PC, plug the M317 into the USB port, Windows finds the new device and builds the



Windows will now look for a driver, select "search for the best driver", this is located on the floppy disk.





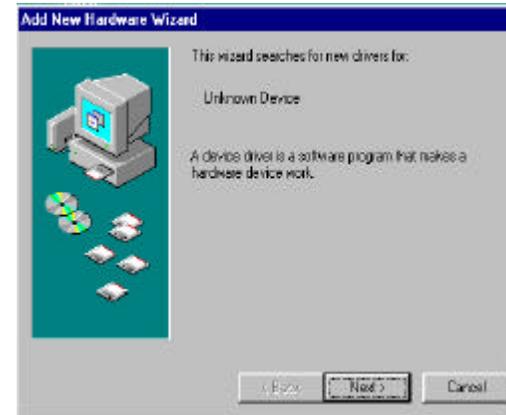
Select "Floppy Disk".



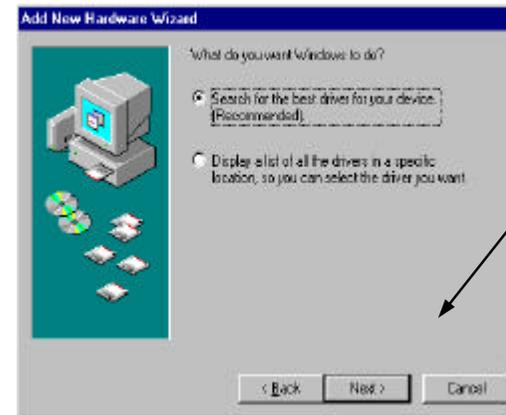
Select next



The USB High speed Serial converter is installed, Select "Finish".



Windows detects an unknown device, that is the virtual serial port.



Select next



Select "Floppy disk".