

MULTICOUNT

INTEGRATED SMARTWEDGE CONNECTIVITY and USER GUIDE



The *MultiCount* Integrated SmartWedge Connectivity and User Guide will explain how you can connect the *MultiCount* via the USB port to a PC and will explain the options available.

Table of Contents	Page
1. INTRODUCTION	2
2. MODES OF OPERATION	2
3. HOW TO CHANGE MODE ON THE MULTICOUNT	2
4. HOW TO CONNECT THE ISW	3
5. QUICK START	3
6. MULTICOUNT USB CONFIGURATION NUMBERS	4-5
7. MULTICOUNT USB SPECIFICATIONS	6

1. INTRODUCTION

The Integrated Smart Wedge (ISW) feature allows you to connect your *MultiCount* directly to any Windows PC via a standard USB port. It is a 'plug and play' connection as it appears to the Windows Operating System as a standard Auxiliary Keyboard.

This means that the output from the *MultiCount* can be fed into any standard PC application that normally expects to receive characters from a keyboard e.g. NotePad, WordPad, Excel etc.

Once in the PC the data can be manipulated however you require using standard Microsoft programs.

Although the ISW is fundamentally a 'plug and play' operation and needs no new software to be installed on the PC, it does have several powerful modes of operation which are described below.

2. MODES OF OPERATION

- 2.1 Send all printable characters to the AUX Keyboard
- 2.2 Send a Count for each Configured Media
- 2.3 Send an Amount for each Configured Media
- 2.4 Send the SUM of all Configured Media

3. HOW TO CHANGE ISW MODE ON THE MULTICOUNT

- 3.1 Turn your *MultiCount* OFF and then turn it ON again while holding down the top left and top right buttons.

- 3.2 The screen will show:

OPERATION OPTIONS			
1:SEL	2:->	3:<-	4:ESC


- 3.3 Press the number 3 key on the numeric keypad.

- 3.4 The screen will now show:

SET USB NUMBER			
1:SEL	2:->	3:<-	4:ESC

- 3.5 Press the number 1 key on the numeric keypad to select this option.

- 3.6 A seven (7) digit number will now be displayed in the bottom left of the screen for example 1110111 – this is the ISW Configuration Code

- 3.7 Press the  key to clear the numbers and re-enter the required configuration number using the keypad.

- 3.8 Press the  key to accept.

- 3.9 Press the number 4 key to exit SetUp.

- 3.10 Now turn your *MultiCount* OFF and ON again for the changes to take effect.

4. HOW TO CONNECT THE ISW

Plug one end of the USB cable into the USB Port on the left side of the *MultiCount*. Plug the other end of the USB Cable into a USB Port on the Host PC.

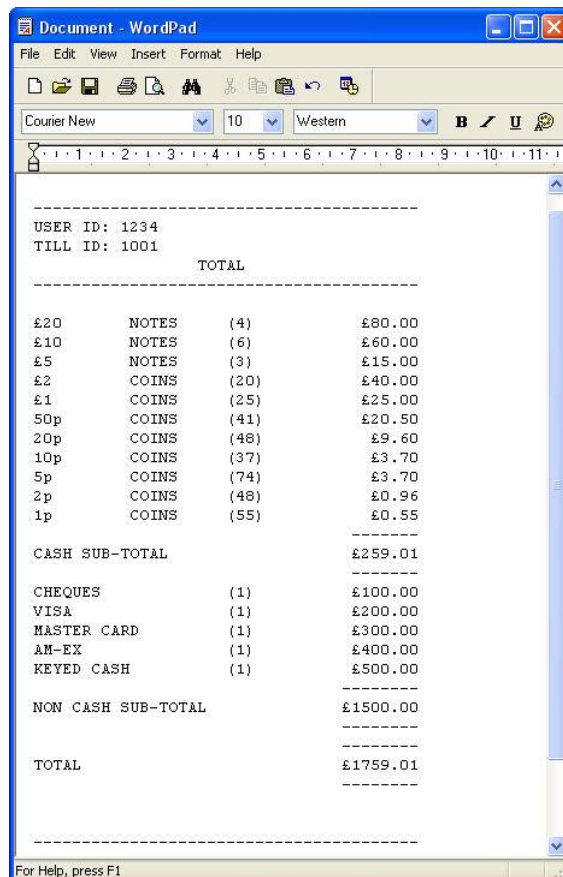
Power on the *MultiCount* and you should hear a double tone from your PC and a message indicating that “New Hardware has been found” will be displayed on your PC Screen. Wait until the “Your New Hardware is Ready “ message is displayed and your *MultiCount* is ready to send “Output Data “ to any application that can accept keyed input.

IMPORTANT: The output from the *MultiCount* looks like keys pressed on a Keyboard so be sure to have an application open that can take the keyed input before you activate any output directed to the Integrated Wedge.

5. QUICK START

To try *MultiCount* ISW, open a text editor like Note Pad or Word Pad. If you have a choice of fonts, use a font like Courier that has a “Fixed Space” Character Set to make your output look even.

Now any action that would have sent output to the Printer will send output to the text editor. Itemized Print, Total Print, Grand Total Print, Cheque List Print and All Register Print will all send there reports to the USB Aux Keyboard and to the RS 232 Printer Port on *MultiCount*.



6. MULTICOUNT USB CONFIGURATION NUMBERS

(* = Default Normal Settings)

Default USB Number

1	1	1	0	1	1	1
---	---	---	---	---	---	---

First Number – MultiCount Mode

USB Mode	Value	Action
ISW	1*	Start USB as AUX Keyboard
	2	Future Use
	0	Start USB Boot Loader

Second Number - Output Mode

Parse Mode	Value	Action
All	1*	Pass All Printable Characters
Count	2	Pass a Count for Configured Media
Amount	3	Pass an Amount for Configured Media
Total	4	Pass a Sum for all Configured Media

Third Number – Decimal Separator

Decimal Separator	Value	Action
Period	1*	Use Period as Decimal Separator
Comma	2	Use Comma as Decimal Separator
Space	3	Use Space as Decimal Separator
None	4	No Decimal Separator
Custom 1	5	Future Use
Custom 2	6	Future Use
Custom 3	7	Future Use
Custom 4	8	Future Use
Custom 5	9	Future Use
Custom 6	0	Future Use

Fourth Number – Keyboard Layout Options

Keyboard	Value	Action
Special 1	1	German, Swiss(German), Swiss(French)
Special 2	2	French
Special 3	3	Dutch
Special 4	4	Spanish, Swedish, Danish, Finish
Special 5	5	Dutch Belgium
Special 6	6	Future Use
Special 7	7	Future Use
Special 8	8	Future Use
Special 9	9	Future Use
Standard	0*	UK, US, Ireland, Australia,Canada(English)

Fifth Number – Typing Speed

Typing Speed	Value	Action
Fast	1*	Set USB Rate to Fast

Sixth Number – Field Terminator

Field Terminator	Value	Action
Enter	1*	Enter Key After Data
Tab	2	Tab Key After Data
Space	3	Space Key After Data
Comma	4	Comma Key After Data
Right Arrow	5	Right Arrow Key After Data
Down Arrow	6	Down Arrow Key After Data
Custom 1	7	Future Use
Custom 2	8	Future Use
Custom 3	9	Future Use
None	0	No Key After Data

Seventh Number – Printer Options

Printer	Value	Action
Able Printer	1*	Send Able Printer Control Codes
Other Printer	2	Send No Control Codes
NO Printer	3	No Printer Present

7. MULTICOUNT USB Specifications

MultiCount ISW USB 2.0 Interface Overview

The MultiCount ISW USB 2.0 Interface is based on the HID (Human Interface Device) USB 2.0 Specification. The Output of the Cash Counter is viewed by the Operating System as an Auxiliary Keyboard Input. No additional Drivers are required and the USB Processor is not powered by the USB connection.

Hardware Specification

Microprocessor: Microchip PIC 18F2550

Device Type: USB 2.0 Type 3 HID (Human Interface Device)

USB Stack : Microchip High Speed USB Framework

Drivers: Microsoft Standard HID USB Drivers (no additional drivers required)

RoHS: RoHS Compliant

Microchip: Devices in the PIC 18F2455/2525/4555/4550 family Incorporate a fully featured Universal Serial Bus Communications module that is compliant with the USB Specification Revision 2.0 The Module supports Both low-speed and full speed communication for All supported data transfer types.

Regulatory: CE, UL , FCC Approvals