# Wireless Scanning on the Cheap: Using a Portable Barcode Reader for Internal Use Statistics and Inventory

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## **CIPHER CPT-8000** Application Generator Setup for Millennium

The figures below are representative of the Cipher CPT-8000 after customization using the Application Generator.



Using the Application Generator, two forms (data files) were created.

- 1. Count Use
- 2. Inventory

## **Connection Information:**

The Cipher CPT-8000 is a serial device. We added a "USB to Serial" connector. When needed, a USB Keyboard Emulation software utility is used.

## **Customized Settings:**

The following pages explain the settings that were customized. If a setting is not referred to in this document it was left using the default setting provided by the Application Generator.

## **Count Use Settings:**

Application Generator - [ C:\Documents and Settings\SLibby\Desktop\Cipher 8000-c\Applicati ?	Line 1:
Form Menu Lookup Barcode Settings Startup	<b>Data type</b> =prompt
	Prompt= Barcode:
Name : form 1 💌 Esc : menu 1 💌 Lookup : nil 💌 Time Stamp	"Barcode" will display on device. (See Fig. 3 or page 1)
Font: Jarge V Next: form 1 V Record: save V Branch	<b>1 :</b>
	Line 2: Data type=taxt
Line Data type Prompt Input source Min length Max length Lookup Properties	<b>Prompt</b> = [leave blank]
#1 prompt V Barcode: both V 1 6 nil V more	Allows for alpha-numeric data entry
#2 best v both v 6 6 mil v more	Min length =6
	Max length=6
#3 extension 💌   both 🔍 0 🔽 nil 🔍 more	blank lines and product barcodes from being ent
#4 counter Count: both V 0 80 nil V more	accidentally. More
#5 nil Properties 5/02/06.12:23:43nm 🕅 80 nil ▼ more	Fixed data length=6
Form #1 Line # 2	Left aligned
Fixed data length 6 Fixed partial barcode	AutoEnter:=Scan+ENTER
#7     nil     Left aligned (padded with space)     Start position :     1     80     nil     more	Line 3:
#8     nil     Initial value or text     Maximum length:     20     80     nil     more	Data type=extension
Add prefix code	~ <b>x</b>
Add sulfix code	Line 4:
Show input mark MOD 10 Double-Add-Double (next high) V UK Lancel	Data type=counter
	Allows a count to display.(see Fig 3 on page 1)
OK Cancel	
	Form 2 – Inventory
Inventory Settings:	Font: Large
	Line 1:
Application Generator - [ C:\Documents and Settings\SLibby\Desktop\Cipher 8000-c\Applicati 👔 🔀	<b>Data type</b> =prompt
Form Menu Lookup Barcode Settings Startup	<b>Prompt</b> = Barcode:
	page 1)
Name: form 2 💌 Esc : menu 1 💌 Lookup: nil 🔍 Time Stamp	
Font: large 💌 Net form 2 💌 Record: save 💌 Branch	Line 2: Data type=taxt
	<b>Prompt</b> = [leave blank]
Line Data type Prompt Input source Min length Max length Lookup Properties	Allows for alpha-numeric data entry
#1 prompt  Barcode:   both  Both  Barcode:   both  Barcod	Min length =6
#2 text ▼ both ▼ 6 6 nil ▼ (more)	Max length=6
#3 automine w	blank lines and product barcodes from being ent
	accidentally.
#4   counter   Count:       0   80       more	Fixed data length=6
#5 nil both 080 nil more	Left aligned
tt6 mil	AutoEnter:=Scan+ENTER
Form #2 Line # 2	Add prefix code= n:
#7     nil     Image: Fixed data length     6     Image: Fixed data length     6     Image: Fixed data length     1	Inventory files
#8     nil     Left aligned (padded with space)     Start position :     1     nil     more	Inventory mes.
Initial value or text Maximum length: 20	Line 3:
Add prefix code	Data type=extension
Add suffix code	Line 4:
Show input mark	<b>Data type</b> =counter
Decimal places : variable Auto ENTER : Scan+ENTER	Prompt=Count:
OK Cancel	Allows a count to display. (See Fig 3 on page 1)

Form 1 – Count Use Font: Large

ine 1: ata type =prompt **compt**= Barcode: arcode" will display on device. (See Fig. 3 on ge 1) ine 2: ata type=text **compt**= [leave blank] lows for alpha-numeric data entry in length =6 ax length=6 r barcodes are 6 characters long. This prevents ink lines and product barcodes from being entered cidentally. lore... xed data length=6 eft aligned utoEnter:=Scan+ENTER ine 3: ata type=extension ine 4: ata type=counter **compt**=Count: lows a count to display.(see Fig 3 on page 1) orm 2 – Inventory ont: Large ine 1: ata type =prompt **compt**= Barcode: arcode" will display on device. (See Fig. 3 on ge 1) ine 2: ata type=text **compt**= [leave blank] lows for alpha-numeric data entry in length =6 ax length=6 r barcodes are 6 characters long. This prevents nk lines and product barcodes from being entered identally. ore... xed data length=6 ft aligned utoEnter:=Scan+ENTER dd prefix code= n: :" is required by Millennium for ventory files. ine 3: ata type=extension ine 4: ata type=counter compt=Count:

#### Two Separate Data Collection Files: Count Use and Inventory

orm Menu Lookup Barcode Se	ttings Startup		
μς Name: menu 1 ▼	Item No.	Item Name	Next :
	#1	1. Count Use	form 1 💌
Font : large 💌	#2	2. Inventory	form 2
Esc: main 💌	#3		main
Menu caption :	#4 [		main 💌
MILLENNIUM	#5 [		main
Data	#6		main
	#7		main
j save caption	#8 [		main
Save selected item	#9 [		main
Pass down	#10		main 💌
Save the collected data for each	form to separate da	ta files.	Reset

**Menu 1** (See fig. 2 on page 1) **Font** = large

Menu caption=yes "MILLENNIUM"

#### Item Name and Next:

Item names are the menu selections that will display on the device. It is important that the Item name correctly corresponds to the appropriate form so that after a barcode is scanned it stays on that form.

#### <u>Separate data files=yes</u>

This setting must be checked in order for the barcodes to go into separate files for Count Use and Inventory.

## **Additional Settings:**

<ol> <li>Upload Port</li> </ol>			
	Cradle-IR	▼ 6. Data Deletion	Manual
		7. Entry Options	Show count
2. Download Port	Cradle-IR	Stay on the L	CD 9 (1 ~ 99) x 100 m
	<b>a</b>	C Press any key	y to continue
3. Modem Speed	115200 bps	💌 8. Key Click	Tone 2
4. Baud Rate	9600 bps	9. Barcode Good F	Read One beep 💌
5. Backlight	Turn on	▼ 10. Warning Beep	Two beeps 💌
Turn backlight off if	idle for 2 (1 ~ 9) x *	10 sec	
Security	Acoustic Coupler	Function Key	Res

## Settings:

These settings can also be changed directly on the device.

#### 4. Baud Rate: 9600 bps

This setting changes depending on the type of upload that is being performed. 115200 bps works well with the USB connection for uploading text files for Inventory. However, it was too fast for the Millennium client to process when uploading the Count Use data using keyboard emulation.

#### 6. Data Deletion: Manual

This was left on Manual so that if there was an interruption in the upload process the barcodes would still be available.

# **7. Entry Options:** Show count **Stay on the LCD:** 9 ms

This setting determines how long the barcode will remain on the display after scanning.

We found this setting useful to keep the barcode visible long enough to verify a correct reading but not long enough to slow scanning.

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