



## **ScanVue Price Verifier Printer Application Note**

*ScanVue Printer Application.doc (Rev E)*

### **Serial Receipt Printer Support**

ScanVue® provides support for the following or equivalent co-located or external serial receipt printer models:

Citizen model CBM-1000II

Fujitsu model FP-1000

### **Configuring the Serial Port**

For serial printer communication, serial port 2 (Configuration Mode: **port2function**) must be set to **OUTPUT**. In **OUTPUT** mode, serial port 2 is a transparent RS232 data port. ScanVue® receives pre-formatted data and control codes from a printer driver resident on the network host, which it passes, unmodified, through serial port 2 to the printer. Printer drivers are specific to the printer used and must be provided by the user.

In **OUTPUT** mode the port communication parameters are pre-configured for 9600 baud, 8 data bits, no parity and 1 stop bit.

Use the **UnitConfig** program or **modeset** utility to change the serial port configuration mode setting **port2function** to **OUTPUT**.

**Modeset** utility located in **C:\POS** directory may also be used for setting **port2function** to **OUTPUT**. Open a DOS box and send following 2 command lines.

```
C:\POS modeset -iPort2function=OUTPUT <IP>
```

```
C:\POS modeset -c -r <IP>
```

where <IP> is the unit's IP address.

Make sure the printer port settings are set to the same parameters for communication.

### **Fujitsu Serial Printer 9600 BAUD Communication Setup**

- Make sure printer power is off, paper roll is set and printer cover is closed.
- While pressing and holding down **FEED** button, power up printer to enter **Special Mode** menu.
- Press **FEED** button 2 times to enter **Setup Menu**.
- Press **FEED** button 1 time to enter **Setting**.
- Press **FEED** button 5 times to enter **Interface**.
- Press **FEED** button 1 time to enter **Baudrate**.
- Press **FEED** button 3 times to select **9600BPS (BAUD)**. Wait more than 1 second for activation.
- Hold **FEED** button down more than 1 second to return to Interface and verify following:
  - 1. Baudrate           9600BPS
  - 2. Format            8NONE1
  - 3. Protocol          DSR/DTR
  - 4. USB              Printer
- Hold **FEED** button down more than 3 seconds to return to **Setup Menu**.
- Press **FEED** 3 times to **Save & End** then turn off printer power.

### **Optional IEE cables available for printer interfacing to ScanVue®:**

- Serial interface cable (IEE P/N 38578–01) connects to the supported serial printer D-Sub 25 Pin Female serial connector)
- Y cable (IEE P/N 70665–01) breaks out the ScanVue® DIN8 connector serial port for printer interface
- Printer extension cable (IEE P/N 37082–XX) where XX specifies the cable length

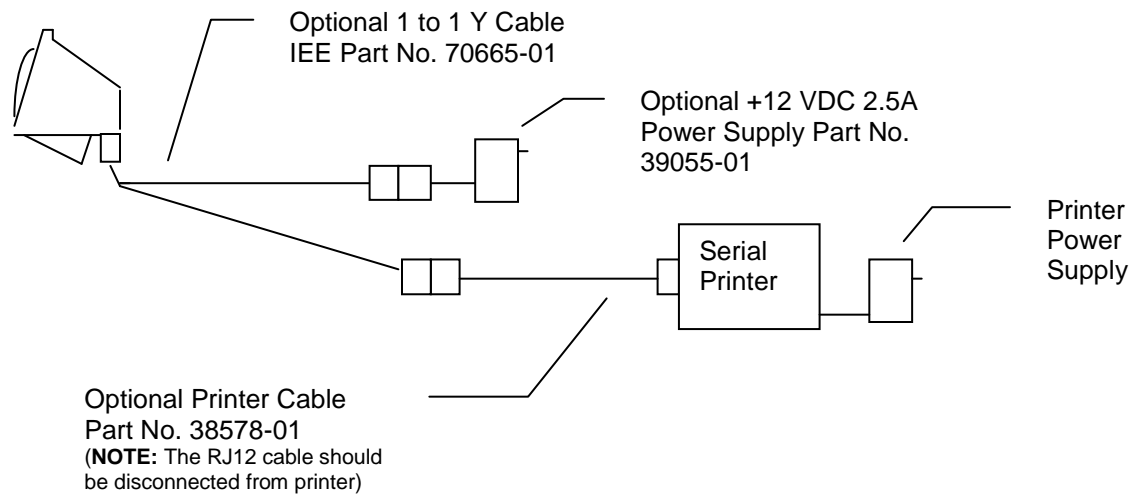
Other manufacturers serial printers may require a different Y cable or port settings. Check with IEE Sales before attempting to connect a different printer.

### Sending Data to the Printer

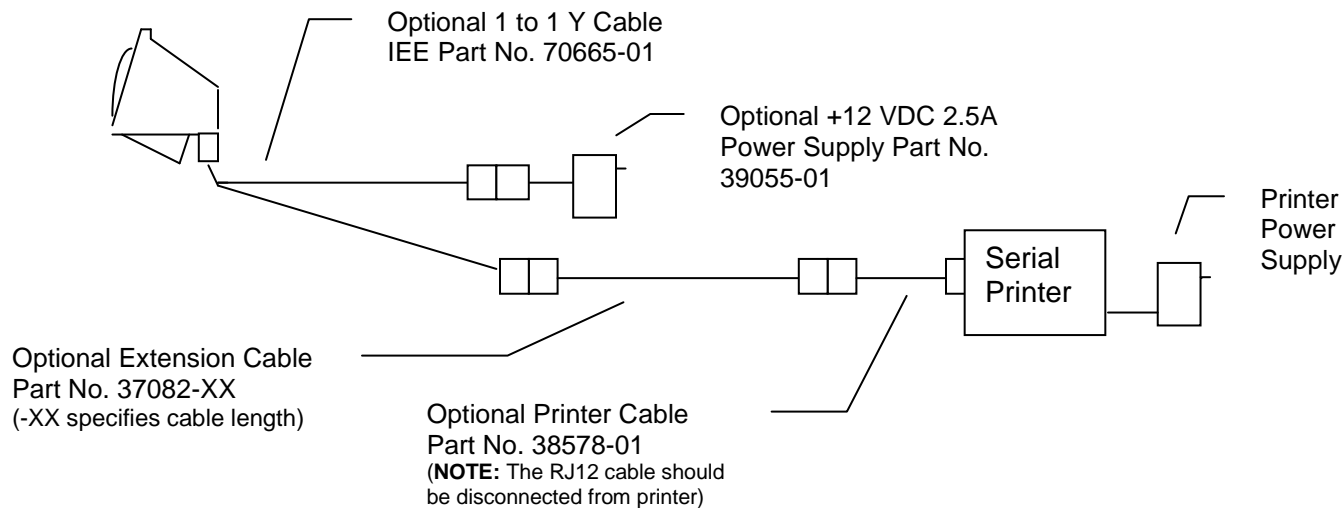
The host server must use nominal-mode ProductInfo packets to send data to the printer. The packets required are **Data** type, **Special Text** sub-type. An example of a typical message is:

<u>Byte Count</u>	<u>Value (h)</u>	<u>Meaning</u>
0-3	00 00 00 13	Length of packet (19 bytes)
4-7	44 41 54 41	'DATA' Data type
8-11	53 50 45 43	'SPEC' Special Text sub-type
12-18	48 65 6C 6C 6F 21 0A	'Hello!<LF>' Text sent to printer

### Serial Printer Wiring Diagram (Typical)



### Serial Printer Wiring Diagram (with Extension Cable)

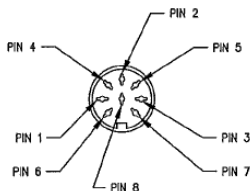


## Power / Serial Interface Connector (DIN 8) Pin Assignments

ScanVue® (Power / Serial) DIN8F

PIN. NO.	FUNCTION
1	GND
2	POWER +12 VDC (2.5A)
3	TXD (RS-232C)
4	DSR (RS-232C)
5	DTR (RS-232C)
6	RXD (RS-232C)
7	POWER +12 VDC (2.5A)
8	GND

**ScanVue® Power/Serial DIN8F Pinout**



Typical Supported Serial Printer  
D-Sub 25 Pin (Female) Connector \*

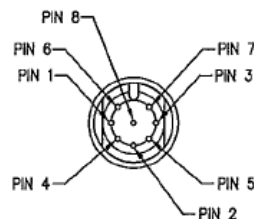
PIN NO.	FUNCTION
7	SIGNAL GROUND
3	RXD (RS-232C)
20	DTR (RS-232C)
6	DSR (RS-232C)
2	TXD (RS-232C)

\* Citizen CBM-1000II, Fujitsu FP-1000  
or equivalent printer

Serial Printer Cable 38578-01 DIN8M \*

PIN. NO.	FUNCTION
1	SIGNAL GROUND
2	INTERNAL CONNECTION
3	RXD (RS-232C)
4	DTR (RS-232C)
5	DSR (RS-232C)
6	TXD (RS-232C)
7	INTERNAL CONNECTION
8	INTERNAL CONNECTION

**Printer Cable DIN8M Pinout**



\* Optional for Citizen CBM-1000II,  
Fujitsu FP-1000 or equivalent printer