



RedPay (Pty) Ltd  
Co. Reg. Number: 2002/024611/07  
VAT Reg. Number: 4090203599  
+27 11 463 5127  
[sales@redpay.co.za](mailto:sales@redpay.co.za)

## **H50 and Barcode Scanner Integration – Case Study**

Redpay Consulting has integrated the Blue Bamboo H50 with a barcode scanner for a client in South Africa who will be deploying this solution to retail stores around the country!

### **About Redpay Consulting**

Redpay is a consultancy specialising in end to end secure electronic payment solutions and solutions related to other financial services.

Key focus areas include custom payment terminal development, custom end to end payment solution design and VAS integration including business development, product development and training covering all the commercial, operational and technical aspects of developing secure electronic payment solutions and other related financial services systems ( mobile banking, closed loop payment systems, VAS vending )

Our flexible infrastructure, strong commercial relationships and modular technical architecture afford us the ability to develop any number of specialised payment systems to custom business requirements.

### **The Challenge**

Our client required a quick and efficient way to capture product codes on the H50, as part of a “traditional POS type” invoicing system that we had developed for them; the challenge was that the product codes were a minimum of 9 digits long and were alphanumeric which made capturing these codes on the H50 difficult, time consuming and error prone if performed manually.

### **The Solution**

Redpay integrated the H50 with a barcode scanner which is used to scan the barcode of a product, the H50 then displays the barcode on-screen for confirmation; this simple and elegant solution increases productivity and reduces the chance of incorrect product codes being entered.

A specific barcode scanner was used which had its own power source as the H50 is not capable of powering an external third party device. The solution does then require a cradle to provide power to the H50 as the external port on the H50 is plugged into the hybrid scanner cable.



Figure 1 H50 waits for user to scan an item, User can override and type in product code manually if they press F1



Figure 2 The scanned product code is displayed

The solution was achieved through the following innovations: Redpay developed a “special” data cable to enable the H50 to communicate with the barcode scanner, an add-on “ScannerCommand” class was developed for the STIPlet application to communicate with the barcode scanner via the H50’s serial port using the SerialOperationListener interface.

### Summary

This solution bridges the divide between payment terminal and POS. This solution is a prime example of how versatile the H50 is, it can perform many operations that a full retail POS system can. Redpay specialises in innovative and “out the box” thinking when it comes to mobile terminal and non-terminal based payment and financial transaction processing solutions.