

# Pen Reader For NXP 14443A Standard

**Model: PR-S50**

## 1. Introduction

PR-S50 is an easy-to-use reader operating in the 13.56MHz frequency band. PR-S50 complies with the internationally recognized ISO-14443A standard. This RFID reader supports Microsoft Windows 2000 / XP / Vista operating systems, with its simple interface make it ideal for mobile device integrations.

## 2. Tag Compatibilities

NXP Mifare S50  
NXP Mifare S70  
NXP Ultralight



## 3. System Hardware Specification

Item	Specification
RFID Standard	Full ISO-14443A (Mifare) compliant
Operating Frequency	13.56MHz
Storage Temperature	-10 <sup>0</sup> C to +60 <sup>0</sup> C
Operating Temperature	0 <sup>0</sup> C to +50 <sup>0</sup> C
Operating Distance	0.5 cm – 2 cm depends on Tag type
Host Interface	USB
Host Communication Speed	USB 1.1 / 1.5Mbps
DC Power	5.0VDC±0.5V through USB connector
Dimension	70mm x 20mm x 9.8mm

## 4. Operating Mode

- Standard: Keyboard Reader Mode (HEX)

Under this mode of operation, reader communicates with host through the built-in USB connector. The reader will perform the following tasks:

- The host (PC) will recognize the reader as a standard keyboard and the host system's default keyboard driver will be used. Valid character only include 0-9 and A-F.
  - Continuously try to read tag UID, only one tag can be within antenna range at a time. No anti-collision.
  - When detecting valid tag within read range, tag's UID will be sent to the host ONE TIME ONLY using standard keyboard character format. A carriage return character should be appended automatically at the end of UID to simulate the "Enter" key. Tag UID will not be transmitted to the host again until the tag is first removed.
- Option 1: Keyboard Reader Mode (Decimal)
  - Option 2: Com Port Mode (KeyA,B and Data Program)
  - Option 3: Auxiliary Reader with Wiegand 26 Bits Output