SLR200
Smart Label Configurable Block Reader
User’s Manual

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SLR200 block reader works with smart label, based on transponders with an operating frequency of 13.56MHz (e.g. I-CODE SL2, Tag-It HF-I ... etc.), based on TI-RFID® technology. It can be configured to read the user-defined block data; it also can be configured to output the user-defined output format; Support two USB interface, one support the USB to RS232 emulation, and other one support the HID keyboard.

Features:
- Configurable to read the user-defined UID or block data.
- Configurable to output the user-defined format.
- Support USB to RS232 emulation output.
- Support USB HID keyboard output(Optional).
- Read/Write ISO15693 Smart Label.

Application
1. EPC Supply Chain
2. EPC for Retail system
3. Logistics Control System
4. Express Parcel Management.
5. Product Authentication.
7. Ticketing.
8. Library management
9. Smart Label printer and encoder.
10. Barcode replacement

Reader Specification:

<table>
<thead>
<tr>
<th>Item</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Frequency</td>
<td>13.56MHz +/- 7kHz</td>
</tr>
<tr>
<td>Supported Transponders</td>
<td>Tag-it™ HF, ISO15693 Compliant Transponders</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>5VDC +/- 5% (Noise Ripple: Max 50mV)</td>
</tr>
<tr>
<td>Supply current</td>
<td>Standby: 70mA; Trigger: 180mA</td>
</tr>
<tr>
<td>Transmitter Power</td>
<td>Max. 10mW</td>
</tr>
<tr>
<td>Antenna Impedance</td>
<td>50 ohm +/-10% (@13.56MHz)</td>
</tr>
<tr>
<td>Communication Interface</td>
<td>USB-RS232 / HID-Keyboard</td>
</tr>
<tr>
<td>Communication Parameters</td>
<td>19200, n, 8, 1</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-10°C to +40°C</td>
</tr>
</tbody>
</table>
**AutoScan**: Search the reader's comport number. And auto connects the reader.

**Update Reader**: Update reader with current configuration.

**Test**: Update reader and start testing reader.

**Reader Version**: Show the reader version.
Reader Settings

Reader ID (Default=0):
SLR200 Reader ID for multi link application. (ID: 0~255).

Modulation (Default=100%):
The modulations of the reader's configuration register

Subcarrier (Default=Two FM):
One or Two subcarrier of the reader's configuration register

AFI (Default=0; Range=0~125):
Reader AFI (not zero, enable) meet Tag AFI, the Tag will be read into RWM600A.
If Reader AFI is zero, the filter function will be disable and RWM600A read tags without AFI checking.

Request Mode (Default=Select):
At large, Tags support the "Select" mode, if not, you can choice the "Address" mode.
Please refer to your tag Spec.

*HID Interface Settings: (only for HID interface)
Set up the HID output language. Default = "000 - English"
Data Settings

Read Modes (Default=UID Only):
The mode of the reader output from tag.

- **UID Only**
- **Block Data Only**
- **UID + Block Data**
- **DSRD + UID**
- **DSRD + UID + Block Data**
- **UID + EAS**

Set the below configuration when output include the Block Data.

- **Block**: the block number of tag. (0-127 different by tag type)
- **Offset**: the offset amount from block data. (0-3)
- **Length**: the length of block data. (0-128)
Format Settings

To set the output data packet to include CR, LF, Preamble, Postamble

**Uppercase**: Block data string change to uppercase.

**CR**: include 0x0D in last

**LF**: include 0x0A in last

**Preamble**: include chars in front of the output data. Max Length is 32

**Postamble**: include chars in back of the output data. Max Length is 32
Test SLR200 Reader after configuration
(Not Support for HID Interface)

After SLR200 configuration is completed you may use ISO15693 Reader Utility "Test" function to test the reader to see if the configuration is done correctly.

1. After the configuration on the ISO15693 Reader Utility software is made, you should click [Update Reader] to download the current configuration to the Reader.

2. After SLR200 configuration is completed, you may click [Test] to test the Reader.

3. Get a Tag to put on reader to be read and see the output data on the window of "Reader Test".
Read/Write Block Data
In testing screen, read card and press "Select" to R/W tag.

Key in text box and press "Write" to save data in block 0. Select the block list to change "Block Number".