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IntelliStripe® is a registered trademark of MagTek, Inc.
Torx® is a registered trademark of Textron, Inc.

### REVISIONS

<table>
<thead>
<tr>
<th>Rev Number</th>
<th>Date</th>
<th>Notes</th>
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<tbody>
<tr>
<td>1</td>
<td>8 May 2006</td>
<td>Initial Release</td>
</tr>
<tr>
<td>2</td>
<td>13 Feb 2007</td>
<td>Added RoHS Statement. Updated to show OTI contactless module</td>
</tr>
<tr>
<td>3</td>
<td>26 Mar 2007</td>
<td>Clarified FCC statement; updated operating temperature range</td>
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</tbody>
</table>
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This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. Changes or modifications not expressly approved by MagTek could void the user's authority to operate the equipment.

FCC COMPLIANCE STATEMENT
This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN DOC STATEMENT
This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

CE STANDARDS
Testing for compliance to CE was performed by an independent laboratory. The unit under test was found compliant to Class B.

UL/CSA
This product is recognized per Underwriter Laboratories and Canadian Underwriter Laboratories 1950.

RoHS STATEMENT
When ordered as RoHS compliant, this product meets the Electrical and Electronic Equipment (EEE) Reduction of Hazardous Substances (RoHS) European Directive 2002/95/EC. The marking is clearly recognizable, either as written words like “Pb-free” or “lead-free”, or as another clear symbol ( ).

EMVCo APPROVAL STATEMENT
EMVCo approval of the interface module (IFM) contained in this Terminal shall mean only that the IFM has been tested in accordance with the EMV Level 1 Specifications, Version 4.1, as of the date of testing. EMVCo approval does not under any circumstances include any endorsement or warranty regarding the completeness of the approval process or the functionality, quality or performance of any particular product or service. EMVCo does not warrant any products or services provided by third parties. EMVCo approval does not under any circumstances include or imply any product warranties from EMVCo, including, without limitation, any implied warranties of merchantability, fitness for purpose, or non-infringement, all of which are expressly disclaimed by EMVCo. All rights and remedies regarding products and services, which have received EMVCo approval, shall be provided by the party providing such products or services, and not by EMVCo.
# TABLE OF CONTENTS

## SECTION 1. FEATURES AND SPECIFICATIONS

- CONFIGURATIONS .................................................................................................................. 1  
- ACCESSORIES .......................................................................................................................... 2  
- RELATED DOCUMENTS ........................................................................................................... 2  
- STANDARD FEATURES .......................................................................................................... 3  
- OPTIONS .................................................................................................................................. 3  
- SMART CARD INTERFACE ......................................................................................................... 3  
- MAGNETIC STRIPE READER .................................................................................................... 4  
- LATCH ....................................................................................................................................... 4  
- ON BOARD SAM INTERFACE .................................................................................................... 4  
- SENSING SWITCHES .................................................................................................................. 4  
- Card Present Switch ................................................................................................................ 4  
- Card Seated Switch .................................................................................................................. 4  
- Card Latch Switch ................................................................................................................... 4  
- TEST LED ................................................................................................................................. 5  
- FLASH UPGRADEABLE ............................................................................................................. 5  
- RS-232 INTERFACE ................................................................................................................. 5  
- USB INTERFACE ...................................................................................................................... 5  
- SPECIFICATIONS ....................................................................................................................... 5  

## SECTION 2. INSTALLATION

- BEZELS .................................................................................................................................. 7  
  - International Plastic Bezel .................................................................................................... 7  
  - International Metal Bezel ..................................................................................................... 7  
  - North American Plastic Bezel ................................................................................................ 7  
- MECHANICAL MOUNTING AND BEZELS ................................................................................ 7  
  - Front Flange .......................................................................................................................... 8  
  - Side Mounting Studs ............................................................................................................. 8  
  - Side Mounting Holes ............................................................................................................ 8  
- ELECTRICAL CONNECTIONS .................................................................................................. 10  
  - Connectors ............................................................................................................................ 10  
  - Host Connector - RS-232 ..................................................................................................... 10  
  - Host Connector - USB ........................................................................................................ 10  
  - Power-Fail Capacitor Connector ......................................................................................... 10  
  - Contactless Installation ....................................................................................................... 11  
  - Antenna Installation ............................................................................................................. 13  
  - Accessing SAM Module ....................................................................................................... 15  
  - RS-232 Cable ........................................................................................................................ 15  
  - USB Cable ............................................................................................................................ 16  
  - Power Supply ....................................................................................................................... 16  

## APPENDIX A. OPTIONS

- CARD LATCH OPTION ........................................................................................................... 19  
- POWER-FAIL LATCH RELEASE OPTION ............................................................................... 20  
- GATE OPTION ......................................................................................................................... 21  

## APPENDIX B. BEZEL CONFIGURATION AND MOUNTING

- INTERNATIONAL PLASTIC BEZEL MOUNTING ................................................................. 23  
- INTERNATIONAL METAL BEZEL MOUNTING .................................................................... 25  
- Compatibility .......................................................................................................................... 25  
- NORTH AMERICAN PLASTIC BEZEL MOUNTING ............................................................ 27
FIGURES and TABLES

Figure 1-1. IntelliStripe 65, Front View viii
Table 1-1. Specifications 6
Figure 2-1. Chassis Mounting Features 8
Figure 2-2. Dimensions For Mounting 9
Figure 2-3. Power and Communication Connections 10
Figure 2-4. Fully Equipped Contactless Reader with Antenna in Bezel 11
Figure 2-5. Installing Contactless Module on Contactless Ready Model 12
Figure 2-6. Contactless Module Installed 13
Figure 2-7. Using External Antenna with LEDs (Ribbon Cable) 14
Figure 2-8. Using External Antenna without LEDs (Coax Cable) 14
Figure 2-9. Removing Contactless Module to Access SAM Socket 15
Figure 2-10. RS-232 Cable 16
Table 2-1. Pin List for RS-232 IntelliStripe 65 Cable 16
Figure 2-11. Power Supply 17
Figure A-1. Card Latch Assembly 19
Figure A-2. Latch Release Capacitor 20
Figure A-3. Gate Assembly 21
Figure B-1. Flanges for International Bezel Mounting 23
Figure B-2. International Plastic Bezel Mounting 24
Table B1. Examples of Configurations Compatible with the Metal Bezel 25
Table B2. Examples of Configurations Not Compatible with the Metal Bezel 25
Figure B-3. International Metal Bezel Mounting 26
Figure B-4. North American Plastic Bezel Mounting 28
Figure B-5. Small Cutout Bezel (1) 29
Figure B-6. Small Cutout Bezel (2) 30
Figure B-7. Small Cutout Bezel (3) 31
Figure B-8. Small Cutout Bezel (4) 32
Figure B-9. Head-Side Bezel Bracket 33
Figure B-10. North American Plastic Bezel with LED Cutout (1) 34
Figure B-11. North American Plastic Bezel with LED Cutout (2) 35
Figure B-12. North American Plastic Bezel with LED Cutout (3) 36
Figure 1-1. IntelliStripe 65, Front View
SECTION 1. FEATURES AND SPECIFICATIONS

The IntelliStripe 65™ Insertion Reader, shown in Figure 1-1, performs the following major functions:

- Reads magnetic stripe cards
- Communicates with ISO smart cards and many popular memory cards
- Supports one on-board SAM (Security Access Module)
- Includes an integrated USB interface
- Optionally supports Contactless Smart Card communication

The Reader communicates to a host using an RS-232 or USB interface with a defined protocol and command set. The 3-track Reader has an industry standard mechanical footprint. The IntelliStripe 65 is designed for self-service applications such as pay telephones, vending machines, kiosks, and fuel pumps.

CONFIGURATIONS

Unless otherwise specified below, all of the IntelliStripe 65 readers include the following capabilities:

- USB and RS-232 interface
- Smart Card connector with 8-contacts
- Single SAM socket
- Security Gate
- Card retention latch with power fail release
- Single 3-track head
- Bezel with built-in red/green LED

See Appendix A for a description of the options. Part numbers for the basic configurations are shown in the following table.
IntelliStripe 65, USB/RS-232 Insertion Reader

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21165042</td>
<td>North American Plastic Bezel</td>
</tr>
<tr>
<td>21165043</td>
<td>No SAM socket; No security gate; North American Plastic Bezel</td>
</tr>
<tr>
<td>21165044</td>
<td>Contactless smart card ready*; International Plastic Bezel</td>
</tr>
<tr>
<td>21165046</td>
<td>Same as 21165044 but with Contactless smart card module and antenna installed</td>
</tr>
<tr>
<td>21165047</td>
<td>No SAM socket; Contactless smart card ready*; no bezel (front and side mounting configuration—suitable for metal bezel)</td>
</tr>
<tr>
<td>21165048</td>
<td>International Plastic Bezel</td>
</tr>
<tr>
<td>21165051</td>
<td>No latch (but motor is supplied for tamper protection); no bezel (front and side mounting configuration—suitable for metal bezel)</td>
</tr>
<tr>
<td>21165052</td>
<td>No gate; no latch, no bezel (front and side mounting configuration—suitable for metal bezel)</td>
</tr>
<tr>
<td>21165053</td>
<td>No bezel (front and side mounting configuration—suitable for metal bezel)</td>
</tr>
<tr>
<td>21165056</td>
<td>Single 3-track head with ground lug; North American Plastic Bezel</td>
</tr>
<tr>
<td>21165058</td>
<td>Contactless smart card ready*; North American Plastic Bezel</td>
</tr>
</tbody>
</table>

* Contactless module, antenna and cable must be ordered separately

ACCESSORIES

Other part numbers that may be shipped with the unit include the following:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16051408</td>
<td>RS232 / Power cable – 6 foot, IntelliStripe 65 host port to 9-pin D female RS232 and 2.5mm power jack</td>
</tr>
<tr>
<td>16051430</td>
<td>USB-A to USB mini-B cable (white)</td>
</tr>
<tr>
<td>16051433</td>
<td>USB-A to USB mini-B cable (gray)</td>
</tr>
<tr>
<td>30037472</td>
<td>Demo Software, IntelliStripe Picture Demo (CD)</td>
</tr>
<tr>
<td>30037473</td>
<td>MagTek MCP Drivers (CD)</td>
</tr>
<tr>
<td>51300004</td>
<td>OTI Contactless communication module (mounts on “Contactless Ready” models)</td>
</tr>
<tr>
<td>51300005</td>
<td>OTI Contactless antenna (must be mounted away from IntelliStripe 65 bezel)</td>
</tr>
<tr>
<td>51300006</td>
<td>OTI coax antenna cable – 30cm (does not support LEDs)</td>
</tr>
<tr>
<td>51300007</td>
<td>OTI ribbon antenna cable – 19cm (supports LEDs)</td>
</tr>
<tr>
<td>64300080</td>
<td>Power Supply – Auto-ranging 100V-250V, regulated, 12VDC, 2.5mm plug. Requires adapter to mate with power outlet; use Adapter/Power Cord (P/N 71100001) for North American applications.</td>
</tr>
<tr>
<td>71100001</td>
<td>Power Outlet Adapter/Cord for North American applications (used with part number 64300080)</td>
</tr>
<tr>
<td>99510015</td>
<td>Demo Software, IntelliStripe Picture Demo (Web – ref <a href="http://www.magtek.com">www.magtek.com</a>)</td>
</tr>
<tr>
<td>99510016</td>
<td>MagTek MCP Drivers (Web – ref <a href="http://www.magtek.com">www.magtek.com</a>)</td>
</tr>
</tbody>
</table>

RELATED DOCUMENTS

This document (P/N 99875339) is from a hardware perspective only. Other MagTek documents that cover the command set, communications protocol, and API (Application Program Interface) are as follows:
ISO Documents: 7810, 7811, 7816 are available from ANSI at:
Phone: 212-642-4900 or www.ansi.org

STANDARD FEATURES

Standard features of the IntelliStripe 65 are as follows:

- Multiple bezel styles allow for optimized mounting and integration
- Rugged–High impact plastic with read head attached to beam mount
- Vandal Resistant–Open chassis design provides superior debris clearing; half-card dropout allows half-size credit cards and coins to be cleared from insert channel
- On board SAM (Security Access Module)
- RS232 and USB interfaces
- On board intelligence for transporting large blocks of data using a defined protocol and command set
- Test LED
- Program Flash upgradeable

OPTIONS

Any of these options may be selected:

- Smart Card Contacts (8) for reading ISO contact locations
- Front Card Gate prevents coins, dust, moisture, and debris, from entering the unit–opens only when ISO-size card enters the unit
- Card Latch physically latches the card inside the Reader ensuring optimum conditions for a smart card interface session
- Power-Fail Latch Release Mechanism–In case of a power failure, the latch releases the card automatically (requires external capacitor)
- On board Contactless Smart Card support
- Drivers available for all Windows Operating System platforms

SMART CARD INTERFACE

The Reader supports ISO7816 T=0 and T=1 cards not requiring $V_{PP}$, with a speed range of 9600 bps to 115200 bps. It also supports a variety of common memory card types. See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.
MAGNETIC STRIPE READER

The Reader can read up to three tracks of magnetic stripe card data. The Mag-stripe can be configured to support all popular track combinations. See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

LATCH

The Reader contains a latch that can be used to prevent the user from withdrawing the card prematurely. See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

The power fail unlatch option disengages the latch during a power failure. This option is triggered when the power to the reader fails. An external backup capacitor is required for this option to function. This capacitor can be connected to the reader through a header on the board.

ON BOARD SAM INTERFACE

The Reader provides a socket for one on board SAM. The SAM complies to ISO 7816-3 (1997) electrical requirements and do not require \( V_{PP} \). T=0 and T=1 are fully supported with a speed range from 9600 bps to 115200 bps. See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

SENSING SWITCHES

The Reader emulates sensing switches for card present and card latch. A physical sensor is provided to indicate that the card is seated in the reader and ready for smart card communication.

Card Present Switch

See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

Card Seated Switch

A snap-action switch is operated when a card is fully inserted into the Reader (card is at the fully rearward position). See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

Card Latch Switch

See IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.
TEST LED

The Test LED is shown in Section 2, Figure 2-4. When the unit is powered up, the Test LED will blink green. This indicates that the unit is in its standard operating mode.

FLASH UPGRADEABLE

The unit’s firmware is in-system Flash Upgradeable. This allows the unit to be upgraded to new smart card specifications.

RS-232 INTERFACE

The device can communicate to the host through an RS-232 interface. Once the host communicates to the device on this interface the device will no longer be able to communicate on any other interface until it is power cycled or reset. The device uses 8 data bits, 1 stop bit, even parity. The device can automatically sync to baud rates 9600, 14400, 19200, 28800, 38400, 57600 and 115200. See MCP Driver Reference Manual (P/N 99875164), MCP Serial Transport Protocol Reference Manual (P/N 99875163) and IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

USB INTERFACE

The device can communicate to the host through a USB interface. Once the host communicates to the device on this interface the device will no longer be able to communicate on any other interface until it is power cycled or reset. The device uses vendor identifier 0801 (hex) and product identifier 000A (hex). The device contains a manufacturer string descriptor with a value of “MagTek”. The device contains a product string descriptor with a value of “IntelliStripe 65”. The device contains a programmable serial number string descriptor. The device does not get its power from the USB port; it needs to be self powered. When using the USB port, power must be applied directly to the PCB via the power connector or the host connector. See MCP Driver Reference Manual (P/N 99875164), MCP Serial Transport Protocol Reference Manual (P/N 99875163) and IntelliStripe 65 Command Reference Manual (P/N 99875161) for more details.

SPECIFICATIONS

Specifications for the Reader are listed in Table 1-1.
### Table 1-1. Specifications

<table>
<thead>
<tr>
<th>DATA FORMAT SPECIFICATION</th>
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<tbody>
<tr>
<td><strong>Reader Configuration</strong></td>
<td>Data Format Specification*</td>
</tr>
<tr>
<td>Mag-Stripe Functions</td>
<td>ISO/AAMVA/ JIS formats</td>
</tr>
<tr>
<td>Track 1,2,3 only</td>
<td>ISO 7810, 7811, JIS x 6302 Type 2</td>
</tr>
<tr>
<td>Smartcard Functions</td>
<td>ISO 7816 T=0 and T=1 protocols, many popular memory cards</td>
</tr>
<tr>
<td></td>
<td>EMVCo Level 1 Approval</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>OPERATIONAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Card Speed</strong></td>
<td>3 IPS (7.62 cm/sec) to 50 IPS (127, cm/sec)</td>
</tr>
<tr>
<td><strong>Recording Method</strong></td>
<td>Two-frequency coherent phase (F2F)</td>
</tr>
<tr>
<td><strong>MTBF</strong></td>
<td>Head: 1,000,000 passes (500,000 Insertion Cycles)</td>
</tr>
<tr>
<td></td>
<td>SC contacts: 1,000,000 insertions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELECTRICAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input Voltage</strong></td>
<td>12.0VDC ± 5%</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>500mA max, (750mA max with contactless smartcard option)</td>
</tr>
<tr>
<td></td>
<td>50mA typical, (230mA typical with contactless smartcard option)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MECHANICAL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Chassis Mounting Options</strong></td>
<td></td>
</tr>
<tr>
<td>Front Flange</td>
<td>See Section 2, Figure 2-1</td>
</tr>
<tr>
<td>Side Mounting Studs</td>
<td>See Section 2, Figure 2-2</td>
</tr>
<tr>
<td>Side Mounting Holes</td>
<td>See Section 2, Figure 2-2</td>
</tr>
<tr>
<td><strong>Dimensions (Core Chassis)</strong></td>
<td></td>
</tr>
<tr>
<td>Overall Length</td>
<td>4.70” (119.4mm)</td>
</tr>
<tr>
<td>Mounting Depth</td>
<td>3.80” (96.5mm) when mounted with front flanges</td>
</tr>
<tr>
<td>Height</td>
<td>1.40” (35.6mm)</td>
</tr>
<tr>
<td>Width</td>
<td>2.60” (66.0mm) without mounting bosses or flanges</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>5.02oz (142.2gr)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENTAL</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>-40°F to 122°F (-40°C to 50°C)</td>
</tr>
<tr>
<td>Storage</td>
<td>-40°F to 158°F (-40°C to 70°C)</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>10% to 90% noncondensing</td>
</tr>
<tr>
<td>Storage</td>
<td>10% to 90% noncondensing</td>
</tr>
<tr>
<td><strong>Altitude</strong></td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>0-10,000 ft. (0-3,048 m.)</td>
</tr>
<tr>
<td>Storage</td>
<td>0-50,000 ft. (0-15,240 m.)</td>
</tr>
</tbody>
</table>
SECTION 2. INSTALLATION

The Installation of the IntelliStripe 65 Insertion Reader includes mechanical and electrical connections.

BEZELS

There are three types of Bezels for this product: the North American Plastic Bezel, the International Plastic Bezel, and the International Metal Bezel. The type of bezel used is relevant to the mounting options described below. Appendix B contains illustrations and engineering drawings describing the three bezels.

International Plastic Bezel

The International Plastic Bezel is larger than the other two bezels and requires a larger panel opening. This bezel uses and is attached by metric screws. International Bezels are mounted to the Reader Chassis by the Front Flange only. The dimensions of the recommended panel opening for mounting are shown in Appendix B.

International Metal Bezel

The International Metal Bezel is slightly smaller than the International Plastic bezel but requires the same size panel opening as the International Plastic Bezel. This bezel uses and is attached by metric screws. International Bezels are mounted to the Reader Chassis by the Front Flange only. The dimensions of the recommended panel opening for mounting are shown in Appendix B.

North American Plastic Bezel

The North American Bezel is smaller than both International Bezels and requires a smaller panel cutout. This bezel follows the industry-standard footprint of MagTek the MT215 Insertion Reader. This bezel uses and is attached by imperial screws. North American Bezels are mounted to the Reader Chassis by the Side Mounting Studs only. The dimensions of the recommended panel opening for mounting are shown in Appendix B.

MECHANICAL MOUNTING AND BEZELS

Mounting options for the Reader are as follows:

- Front Flanges only (for International Bezels)
- Side Mounting Studs only (for North American Bezels)
- Side Mounting Holes only
- Front Flanges and Side Mounting Studs together

Chassis mounting features are shown in Figure 2-1. Mounting dimensions are shown in Figure 2-2. Descriptions of the mounting options are as follows:
Front Flange

Two molded flanges toward the front of the chassis (Figure 2-1) connect the Reader by four threaded studs, nuts, and washers. The International Bezel is used with the Front Flange.

Side Mounting Studs

There are four molded studs. Two are located on each side of the chassis. The North American Bezel is used with side mounting studs. Optional threaded inserts can be inserted in both ends of the studs and used with imperial screws, as indicated in Figure 2-1.

Side Mounting Holes

Four molded holes are available when studs are not provided. Holes are positioned in line with the centerline of the stud with molded nut retaining features, as shown in Figure 2-1 and Figure 2-2.

Figure 2-1. Chassis Mounting Features
Figure 2-2. Dimensions For Mounting

0.100 = Dimensions in inches
[2.54 ] = Dimensions in millimeters
ELECTRICAL CONNECTIONS

Connectors

Figure 2-3 shows the positions of the rear connectors for power and communication.

![Figure 2-3. Power and Communication Connections](image)

**Host Connector - RS-232**

The RS-232 connector, J1, connects to the host’s power and RS-232 signals. Figure 2-3 shows the location of the 7-pin RS-232 Connector. Table 2-1 lists the pin numbers of the connector. If the RS-232 connection is used, the power can be supplied through the jack on the RS-232 cable (see Figure 2-10) or via the J2 Power Connector.

**Host Connector - USB**

The USB connector, J11, connects to the host’s USB port. When using the USB connection, power must be supplied via the J2 Power Connector on the back of the IntelliStripe 65. If the USB connection is used, the power must be supplied to the J2 Power Connector.

**Power-Fail Capacitor Connector**

The Power-Fail Capacitor connector, J4, connects to an optional external capacitor that is used to unlatch the card during a power failure. Pin 1 connects to the positive side of the capacitor and pin 2 connects to the negative side (see Appendix A. Options, Power-Fail Latch Release Option).
Figure 2-4. Fully Equipped Contactless Reader with Antenna in Bezel

**Contactless Installation**

Some models of the IntelliStripe 65 include the ability to add a contactless smart card module. The contactless module and its interface cable can be ordered separately from MagTek. Figure 2-5 shows how the cable and module are attached to the IntelliStripe 65 circuit board. Figure 2-6 shows the module fully installed.
Figure 2-5. Installing Contactless Module on Contactless Ready Model
Antenna Installation

The antenna is a separate item that can be installed outside of the IntelliStripe 65. The antenna module and the interface cable are supplied separately from the reader. Two types of cables are offered:

- Flat Ribbon Cable – this cable is only 7.5” (19cm) but all 4 of the LEDs are supported (see Figure 2-7)
- Coax Cable – this 12” (30cm) cable offers a slightly greater range of antenna placement but it does not operate the LEDs on the antenna module (see Figure 2-8)
Figure 2-7. Using External Antenna with LEDs (Ribbon Cable)

Figure 2-8. Using External Antenna without LEDs (Coax Cable)
Accessing SAM Module

If the contactless module is installed, it must be removed temporarily in order to access the SAM module. The two screws holding the contactless module onto the IntelliStripe 65 circuit board will have to be removed in order to reach the SAM module which is located under the contactless module (see Figure 2-9).

Figure 2-9. Removing Contactless Module to Access SAM Socket

RS-232 Cable

Figure 2-10 shows the cable (P/N 16051408) that connects the IntelliStripe 65 (7-Pin Connector) to the host (9-pin Connector). The length of the cable is 6’ (1.8m).
Table 2-1 lists the connector pin numbers and signal names.

### Table 2-1. Pin List for RS-232 IntelliStripe 65 Cable

<table>
<thead>
<tr>
<th>Molex 7 Pin (51065-0700)</th>
<th>DE-9 Female</th>
<th>2.5mm Power Jack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pin Number</td>
<td>Signal Name</td>
<td>Pin Number</td>
</tr>
<tr>
<td>1</td>
<td>TXD</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>+12V</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PWR GND</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>RXD</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>RTS</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>CTS</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>SIGNAL GND</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

### USB Cable

The USB cable is available in Pearl White (P/N 16051430) and MagTek Gray (P/N 16051433). It connects the Host (USB-A plug) to the IntelliStripe 65 (USB mini-B plug). The overall length of the cables is 6’ (1.8m).

### Power Supply

Figure 2-11 shows the Power Supply (P/N 64300080) 100-240V, regulated, 12VDC @ 1.5 Amps, 2.5 mm power jack. The AC power cord (P/N 71100001) is for use in North America. Other users must supply their own cord (requires an IEC-320-C13 connector at the power supply).
Figure 2-11. Power Supply
APPENDIX A. OPTIONS

CARD LATCH OPTION

The location and parts of the Card Latch Assembly are shown in Figure A-1.

Figure A-1. Card Latch Assembly
POWER-FAIL LATCH RELEASE OPTION

The externally mounted power-fail capacitor is shown in Figure A-2.

![Figure A-2. Latch Release Capacitor](image)

The power fail unlatch option disengages the latch during a power failure event. This option is triggered when the main input power to the reader fails. An external backup capacitor is required for this option to function. This capacitor can be connected to the reader through a header on the board.

In the case of power failure, the capacitor automatically opens the latch, which releases the card. The users must determine the wire length required for their specific application. The power fail capacitor range is 3300uF to 15000uF with a rated voltage greater than the applied reader input voltage.
GATE OPTION

The location and parts of the Gate Assembly are shown in Figure A-3.
APPENDIX B. BEZEL CONFIGURATION AND MOUNTING

Three bezel configurations are described in this appendix: the International and the North American Plastic Bezels and the International Metal Bezel. The International Bezels are slightly larger than the North American Bezel and require a larger panel opening for installation. The International Bezels are suited to applications requiring metric screws and the North American Bezel to imperial screws. From the drawings in this section, the user may design a bezel for different requirements.

INTERNATIONAL PLASTIC BEZEL MOUNTING

The International Plastic Bezel (P/N 21161202) is attached to the unit by four screws (Mounting inserts M3.5 x 5 Minimum Deep). The four screws are inserted into the front flange slots to retain the unit to the bezel. Figure B-1 shows the position and the dimensions of the flanges.

Figure B-2 shows the orientation and dimensions of the bezel and recommended dimensions for the panel opening. Four screws that mount the Bezel to the panel are also M3.5. The length of the screws depends on the panel thickness, washers, and spacers used in mounting the panel.

Figure B-1. Flanges for International Bezel Mounting
Figure B-2. International Plastic Bezel Mounting
INTERNATIONAL METAL BEZEL MOUNTING

The International Metal Bezel (P/N 21161204) is shown and described in Figure B-3. The Bezel also requires the front flanges for attaching the Bezel to the unit (see Figure B-1). Four screws are inserted into the front flange slots to retain the unit to the bezel. These screws are thread cutting and may be either Phillips head or T10 Torx®.

Figure B-3 also shows the orientation and dimensions of the bezel and recommended dimensions for the panel opening. Four screws that mount the Bezel to the panel are also M3.5. The length of the screws depends on the panel thickness, washers, and spacers used in mounting the panel.

Compatibility

The Metal Bezel is not compatible with some units. The units compatible with the Metal Bezel are 1) front mount and 2) front and side mount together (M1 and M3). The units not compatible with the Metal Bezel are 1) side mount and 2) no mount (M2 and M4). Table B1 lists examples of units compatible with the Metal Bezel. Table B2 lists examples of units not compatible with the Metal Bezel.

Table B1. Examples of Configurations Compatible with the Metal Bezel

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
<th>Mounting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21165044</td>
<td>IntelliStripe 65</td>
<td>M3 – Front and Side Mounted</td>
<td>I65 with flanges and bosses</td>
</tr>
<tr>
<td>21165046</td>
<td>IntelliStripe 65</td>
<td>M3 – Front and Side Mounted</td>
<td>I65 with flanges and bosses</td>
</tr>
<tr>
<td>21165048</td>
<td>IntelliStripe 65</td>
<td>M3 – Front and Side Mounted</td>
<td>I65 with flanges and bosses</td>
</tr>
<tr>
<td>21165051</td>
<td>IntelliStripe 65</td>
<td>M3 – Front and Side Mounted</td>
<td>I65 with flanges and bosses</td>
</tr>
<tr>
<td>21165052</td>
<td>IntelliStripe 65</td>
<td>M3 – Front and Side Mounted</td>
<td>I65 with flanges and bosses</td>
</tr>
</tbody>
</table>

Table B2. Examples of Configurations Not Compatible with the Metal Bezel

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
<th>Mounting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21165042</td>
<td>IntelliStripe 65</td>
<td>M2 – Side Mounted</td>
<td>I65 with bosses only</td>
</tr>
<tr>
<td>21165043</td>
<td>IntelliStripe 65</td>
<td>M2 – Side Mounted</td>
<td>I65 with bosses only</td>
</tr>
</tbody>
</table>
IntelliStripe 65, USB/RS-232 Insertion Reader

Figure B-3. International Metal Bezel Mounting
Appendix B. Bezel Configuration and Mounting

NORTH AMERICAN PLASTIC BEZEL MOUNTING

The North American Plastic Bezel (P/N 21161206) is shown and described on Figures B-4, B-5, B-6 and B-7. The Bezel with the optional cutout for the LED (P/N 21161207) is shown and described on Figures B-4, B-9, and B-10. The North American Bezel is smaller than the International Bezels and requires a smaller panel opening for installation. The North American Bezel is suited to applications requiring imperial screws. From the drawings in this section, the user may design a bezel for different requirements.

Figure B-3 shows the orientation and dimensions of the bezel and recommended dimensions for the panel opening. Four screws that mount the Bezel to the panel are size 6-32. The length of the screws depends on the panel thickness, washers, and spacers used in mounting the panel. Figures B-4 and B-5 show the dimensions of the bezel in case a different bezel is required. Figures B-6 and B-7 show the brackets that are mounted on the side of the unit.
Figure B-4. North American Plastic Bezel Mounting
Appendix B. Bezel Configuration and Mounting

Figure B-5. Small Cutout Bezel (1)
Figure B-6. Small Cutout Bezel (2)
Figure B-7. Small Cutout Bezel (3)
NOTES APPLY THIS CONFIGURATION ONLY

1. PN# 21161206
2. MATERIAL: LEXAN GE# 940 OR APPOVED EQUIVALENT

NOTES APPLY THIS CONFIGURATION ONLY

1. PN# 21161212
2. MATERIAL: RTP ESD 300 EM FR

Figure B-8. Small Cutout Bezel (4)
Figure B-9. Head-Side Bezel Bracket
Figure B-10. North American Plastic Bezel with LED Cutout (1)
Figure B-11. North American Plastic Bezel with LED Cutout (2)
Figure B-12. North American Plastic Bezel with LED Cutout (3)