



Atlas

User Manual



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User Guide

Version 0.1

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This product is not designed, intended, authorized or warranted to be suitable for life support applications or any other life critical applications which could involve potential risk of death, personal injury, property damage, or environmental damage.

Your safety is extremely important. Read and follow all warnings and cautions in this document before handling and operating RFID equipment. You can be seriously injured, and equipment and data can be damaged if you do not follow the safety warnings and cautions.

A caution alerts you to an operating procedure, practice, condition, or statement that must be strictly observed to prevent equipment damage or destruction, or corruption or loss of data.

Note: Notes either provide extra information about a topic or contain special instructions for handling a condition or set of circumstances.

1. Installing Test Tool

1.1 Hardware Requirements

- Microsoft ® Windows 10 (version 21H2 or later) or above
- 1GHz CPU, 1GB RAM (32bit) or 2GB RAM (64bit)
- 300 MB available hard drive space
- USB 2.0

1.2 Software Installation

Prerequisite: [.NET8.0 Runtime](#)

To ensure the reader will work properly, please install the program before you connect ATLAS to your computer.

1. Please go to <https://star-int.net/support/> to get the latest software.
2. Start the **AtlasApp.msi** program and follow the instructions in the installation wizard.
3. The AtlasApp will be available from the Start menu after the installation process has successfully completed.
Alternatively, the path to the program is: **Start → Program Files → STAR Systems → AtlasApp**
4. Connect the reader with the supplied USB cable to the computer. If an error message regarding USB driver shows up, please refer to **Section 4 USB driver installation** to update the USB driver.

2. What's inside

2.1 Inside the package



1. The Atlas unit;
2. USB type-C cable, 1m;
3. A Quick Start Guide.

2.2 The Atlas Reader



Power LED: Showed the Atlas reader is powered up.

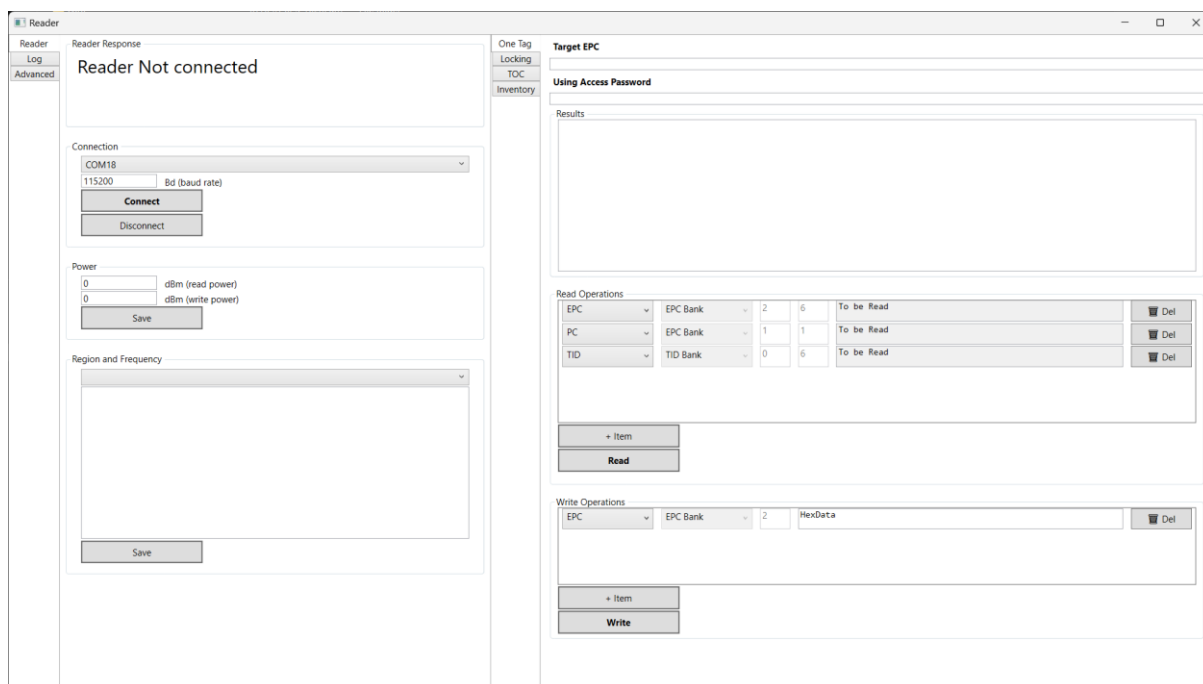
Activity LED: Showed the Atlas reader is transmitting power to read/write a tag.

USB-C port: For power and communication.

3. Using Test Tool

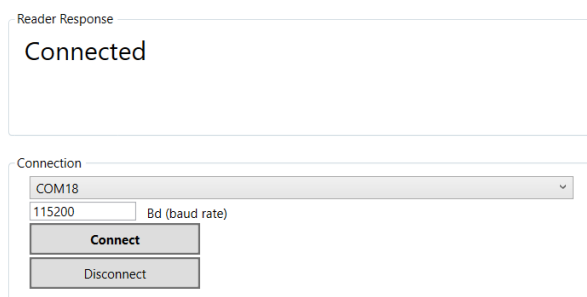
3.1 Getting started

1. Connect the reader to the host computer.
2. Launch the AtlasApp.



The screenshot shows the 'Reader' application window. On the left, the 'Reader Response' section displays 'Reader Not connected'. Below this, the 'Connection' section shows a dropdown menu set to 'COM18' and a text field for 'Bd (baud rate)' set to '115200'. There are 'Connect' and 'Disconnect' buttons. The 'Power' section has two input fields for 'dBm (read power)' and 'dBm (write power)', both set to '0', with a 'Save' button. The 'Region and Frequency' section has a dropdown menu and a 'Save' button. On the right, the 'One Tag' section has buttons for 'Locking', 'TOC', and 'Inventory'. Below this, the 'Target EPC' section has a text field for 'Using Access Password' and a 'Results' section. The 'Read Operations' section contains a table with columns for 'EPC', 'EPC Bank', 'TID', 'TID Bank', and 'To be Read'. It lists three items: EPC (Bank 2, 6), PC (Bank 1, 1), and TID (Bank 0, 6). There are '+ Item', 'Read', and 'Del' buttons. The 'Write Operations' section has a table with columns for 'EPC', 'EPC Bank', and 'HexData'. It lists one item: EPC (Bank 2, HexData). There are '+ Item', 'Write', and 'Del' buttons.

3. The AtlasApp will search for all the available serial devices and be shown in the Connection box.
4. User has to select the correct port number for successful connection (if there's only one serial device connected to the host computer, the port number will be automatically shown in the box).
5. Configure the proper baud rate of the reader. The default value is 115200bps.
6. Click "Connect" button to connect the reader to the host.



The screenshot shows the 'Reader' application window after a successful connection. The 'Reader Response' section now displays 'Connected'. The 'Connection' section remains the same, with 'COM18' selected and '115200' in the baud rate field. The 'Connect' and 'Disconnect' buttons are still present.

7. Now the reader is ready to read and write RFID tag.

3.2 Reader configuration

Power

27

dBm (read power)

27

dBm (write power)

Save

Region and Frequency

North America

☒ 902750
 ☒ 903250
 ☒ 903750
 ☒ 904250
 ☒ 904750
 ☒ 905250
 ☒ 905750
 ☒ 906250
 ☒ 906750
 ☒ 907250

Save

Power

Configure Atlas's output power for reading and writing a tag independently. The unit is in dBm. The configurable range for Atlas is 5~27dBm and the minimum step is 1dB. Configured the desired output power before reading/writing a tag.

The "Save" Button saved the user configured output power and the value will be retained on next power cycle.

Region and Frequency

It showed the current region setting and the active frequencies set. The region is pre-configured before shipment based on the user's local regulations.

3.3 Reading Tags

3.3.1 Reading One Tag

1. Click on the center "One Tag" tab.

One Tag

Locking

TOC

Inventory

Target EPC

Using Access Password

Results

2. Put a target tag on top of the Atlas reader.
3. The default configuration for the app to read the EPC, PC and TID out of the tag. Additional information of the tag could be added Read Operations box. Details will be discussed in the next chapter.

Read Operations

EPC	EPC Bank	2	6	To be Read	Del
PC	EPC Bank	1	1	To be Read	Del
TID	TID Bank	0	6	To be Read	Del

+ Item

Read

- Click "Read" button to read a tag.
- If the tag is successfully read, the tag information will be shown in the "Result" Window.

Results

PC : 3400
 EPC: **E280-11C1-A500-0066-3840-AB28**
 TID: E280-11C1-2000-0C33-C205-0331
 Access Password: [[ACCESSPASSWORD]]
 Kill Password : [[KILLPASSWORD]]
 Key0: [[USER BANK@0XC0>>8]]

Read Operations

EPC	EPC Bank	2	6	E28011C1A50000663840AB28	Del
PC	EPC Bank	1	1	3400	Del
TID	TID Bank	0	6	E28011C120000C33C2050331	Del

+ Item

Read

- The read log is located on the "Log" tab of the AtlasApp.

Reader

Reader

Log

Advanced

16:07:34 - Information - Application started
 16:07:38 - Information - Starting ConnectReader operation
 16:07:38 - Information - Connecting...
 16:07:42 - Information - ConnectReader success: Reader connected
 16:07:42 - Information - ConnectReader operation completed
 16:08:33 - Information - Starting SetReaderPower operation
 16:08:33 - Information - SetReaderPower set power: read=20, write=20
 16:08:33 - Information - SetReaderPower operation completed
 16:17:57 - Information - Starting ReadTag operation
 16:17:57 - Information - ReadTag success: EPC Bank@2>>6 (EPC)
 16:17:57 - Information - ReadTag success: EPC Bank@1>>1 (PC)
 16:17:57 - Information - ReadTag success: TID Bank@0>>6 (TID)
 16:17:57 - Information - ReadTag operation completed

data length (unit in word) to read the data out of the tag.

Read Operations

TID	TID Bank	0	6	E28011C120000B28C2050331
AccessPassword	Reserved Bank	2	2	BEEFBEEF
KillPassword	Reserved Bank	0	2	BEEFBEEF
UserMemory	User Bank	0	32	DEADBEEF000000000000000000000000
Custom	User Bank	1	7	BEEF00000000000000000000000000
+ Item	Reserved Bank			
Read	EPC Bank			
	TID Bank			
	User Bank			

Start Address (pointing to 1)

Length of data (pointing to 7)

- For some tags that are protected by password, one has to input the correct Access password to read the tag information. Password must be a 8-digit hex number. For example, the following tag has been locked with an Access password. Without a correct password, the tag data cannot be read (empty box means the access password being "00000000").

Using Access Password

Results

```
PC : [[PC]]
EPC : [[EPCPRETTY]]
TID: [[TIDPRETTY]]
Access Password: [[ACCESSPASSWORD]]
Kill Password : [[KILLPASSWORD]]
Key0: [[USER BANK@0XC0>>8]]
```

Read Operations

EPC	EPC Bank	2	6	GEN2 protocol other error (420)	Del
PC	EPC Bank	1	1	GEN2 protocol other error (420)	Del
TID	TID Bank	0	6	GEN2 protocol other error (420)	Del
AccessPassword	Reserved Bank	2	2	GEN2 protocol other error (420)	Del
KillPassword	Reserved Bank	0	2	GEN2 protocol other error (420)	Del

- The password could be input at the "Using Access Password" box.

Target EPC

3E0000001306503C3E72959B

Using Access Password

BEEFBEEF

Results

```
PC : 3400
EPC: 3E00-0000-1306-503C-3E72-959B
TID: E280-11C1-2000-0B28-C205-0331
Access Password: BEEFBEEF
Kill Password : BEEFBEEF
Key0: [[USER BANK@0XC0>>8]]
```

Read Operations

EPC	EPC Bank	2	6	3E0000001306503C3E72959B	Del
PC	EPC Bank	1	1	3400	Del
TID	TID Bank	0	6	E28011C120000B28C2050331	Del
AccessPassword	Reserved Bank	2	2	BEEFBEEF	Del
KillPassword	Reserved Bank	0	2	BEEFBEEF	Del

3.4 Write data to the tag

3.4.1 Writing One Tag

“Write Operations” box allow user to write PC, EPC, Access password, Kill password and user memory bank on the tag.

1. To write a tag, a read operation have to be performed to get a target tag information for the subsequent write operation.
2. User could input the EPC that required to be encoded to the tag in the box (HEX number only).

Write Operations

EPC	EPC Bank	2	3E0000001306503C3E72959B	Del
-----	----------	---	--------------------------	-----

+ Item

Write

3. Click “Write”. The EPC will be written on the tag. If the write operation is successful, the result window will show:

Results

WriteTag success: #1 EPC Bank@2 (EPC)

4. One could read the tag and check if the data is written properly.
5. If the EPC memory bank is being locked (not permanently locked), user will need to input the correct Access Password in the text box to re-write the EPC.

Using Access Password

BEEFBEEF Access password

Results

WriteTag success: #1 EPC Bank@2 (EPC)

Read Operations

EPC	EPC Bank	2	6	3E0000001306503C3E72959B	Original Data on the tag	Del
PC	EPC Bank	1	1	3400		Del
TID	TID Bank	0	6	E28011C120000B28C2050331		Del
AccessPassword	Reserved Bank	2	2	BEEFBEEF		Del
KillPassword	Reserved Bank	0	2	BEEFBEEF		Del

+ Item

Read

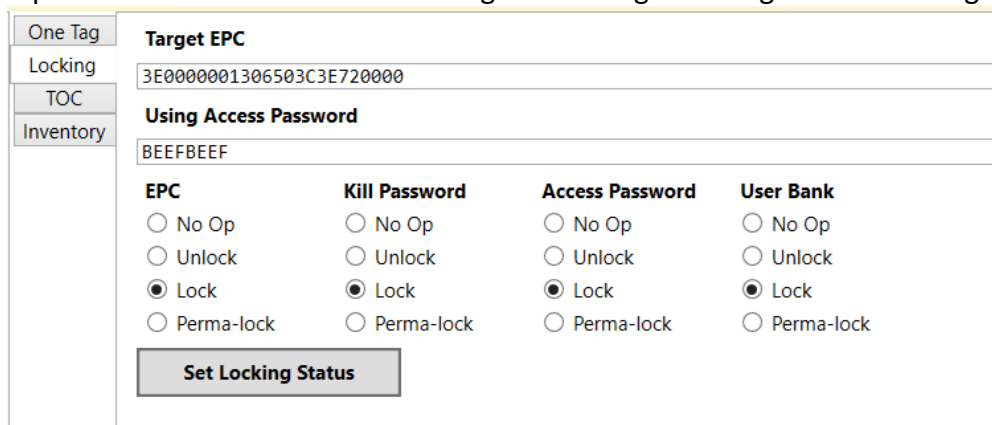
Write Operations

EPC	EPC Bank	2	3E0000001306503C3E720000	New Data to be written	Del
-----	----------	---	--------------------------	------------------------	-----

3.5 Set Lock State

The “Locking” tab allow use to set the lock state of different memory bank in the tag.

1. To begin, the tag has to be read and locked with Access password.
2. Browse to the “Locking” tab in the middle of the user interface.
3. Input the Access Password and configure the target locking state of the tag.



4. Click “Set Locking Status” to lock the tag.
5. Please note that setting the lock state to “Perma-lock” is a irreversible process. Once it is locked permanently, the corresponding field cannot be written anymore.
6. User could check the status of the set lock in the “Log” tab.

Definition:

No Op – Default state. No operation.

Unlock - The memory bank is PERMANENTLY UNLOCKED and is open to read and write for the public, it cannot be locked ever again.

Lock - The memory bank is PASSWORD LOCKED and requires the correct access password to be able to read or write.

Perma-lock - The memory bank is PERMANENTLY LOCKED. It cannot be read, written or unlocked again.

NOTE: TID is permanently locked by default, so users won’t be able to change the lock state of it. EPC and User Data will be readable even if locked. If you lock the EPC it only means you cannot re-write it (without password for secure mode or permanently locked mode).

3.6 Inventory Mode

Atlas supports Inventory mode to read tags continuously.

To begin, user is required to browse to the “Log” Tab for data collection and browse to “Inventory” Tab.

Reader		One Tag	
Reader	13:02:50 - Information - Application started	Locking	Start Inventory Stop Inventory Clear Inventory
Log	13:02:56 - Information - Starting ConnectReader operation	TOC	
Advanced	13:02:56 - Information - Connecting...	Inventory	
	13:03:00 - Information - ConnectReader success: Reader connected		
	13:03:00 - Information - ConnectReader operation completed		
	13:03:07 - Information - Already connected		

Click “Start Inventory” Button will start the inventory round and tags are read continuously until user put it to stop by clicking “Stop Inventory” button.
The times stamp, EPC, TID, PC and RSSI of the tag are reported.

Reader		One Tag	
Reader	13:27:02 - Information - TS: 2025-04-09T13:27:02.3669637+08:00 EPC: 3E0000001306503C3E720000, TID: E280382120006426011F8529, PC: 3400, RSSI: -34	Locking	Start Inventory Stop Inventory Clear Inventory
Log	13:27:02 - Information - TS: 2025-04-09T13:27:02.4289060+08:00 EPC: E28011C1A5000066384089DC, TID: E28011C1200009DCC2040331, PC: 3400, RSSI: -60	TOC	
Advanced	13:27:02 - Information - TS: 2025-04-09T13:27:02.4928133+08:00 EPC: 3E0000001306503C3E720000, TID: E280382120006426011F8529, PC: 3400, RSSI: -34	Inventory	
	13:27:02 - Information - TS: 2025-04-09T13:27:02.4959356+08:00 EPC: 3E0000001306503C3E720000, TID: E28011C120000B28C2050331, PC: 3400, RSSI: -55		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.5011387+08:00 EPC: E28011C1A5000066384089DC, TID: E28011C1200009DCC2040331, PC: 3400, RSSI: -61		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.5699821+08:00 EPC: 3E0000001306503C3E720000, TID: E280382120006426011F8529, PC: 3400, RSSI: -34		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.5713430+08:00 EPC: 3E0000001306503C3E720000, TID: E28011C120000B28C2050331, PC: 3400, RSSI: -54		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.6330578+08:00 EPC: E28011C1A5000066384089DC, TID: E28011C1200009DCC2040331, PC: 3400, RSSI: -60		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.6968869+08:00 EPC: 3E0000001306503C3E720000, TID: E280382120006426011F8529, PC: 3400, RSSI: -34		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.6976435+08:00 EPC: 3E0000001306503C3E720000, TID: E28011C120000B28C2050331, PC: 3400, RSSI: -56		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.7028273+08:00 EPC: E28011C1A5000066384089DC, TID: E28011C1200009DCC2040331, PC: 3400, RSSI: -61		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.7608388+08:00 EPC: E28011C1A5000066384089DC, TID: E28011C1200009DCC2040331, PC: 3400, RSSI: -60		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.8227495+08:00 EPC: 3E0000001306503C3E720000, TID: E280382120006426011F8529, PC: 3400, RSSI: -34		
	13:27:02 - Information - TS: 2025-04-09T13:27:02.8233931+08:00 EPC: 3E0000001306503C3E720000, TID: E28011C120000B28C2050331, PC: 3400, RSSI: -56		

The “Clear Inventory” button will clear the inventory reads.

3.7 6CTOC Checking

This function is designed to check if a tag complies with 6CTOC specification and also allows offline computation of the 6CTOC encoded data to be written on the tag.

3.7.1 Checking 6CTOC compliant

1. Read a tag to start with.

One Tag	Target EPC
Locking	3E0000001306503C3E720000
TOC	
Inventory	
	Using Access Password
	Results
	PC : 3400
	EPC: 3E00-0000-1306-503C-3E72-0000
	TID: E280-3821-2000-6426-011F-8529
	Access Password: [[ACCESSPASSWORD]]
	Kill Password : [[KILLPASSWORD]]
	Key0: [[USER BANK@0XC0>>8]]

2. Click on the “TOC” tab.
3. Click on “Copy from One Tag” button. The tag data of the read will pass to this tab for further checking.

One Tag	EPC	
Locking	3E0000001306503C3E720000	
TOC	TID	
Inventory	E280382120006426011F8529	
Hash Key		
Copy from One Tag		
Decode and Verify		
DFSID (Hex):	00	Unknown DFSID: 0
CRC (Hex):	00	CRC not applicable for TOC Version 0
Agency Use (Bin):	000000000000	Unsupported TOC Version: 0
Classification		
Use Classification (Bin):	0	Not in use (Ignore vehicle fields)
Vehicle Type (Bin):	00000	Undefined
Vehicle Axles (Dec):	0	Undefined
Vehicle Weight (Bin):	0	Up to 7,000 lbs
Vehicle Rear Tires (Bin):	0	Single rear tires
HOV (Dec):	0	Single mode
TOC Version (Dec):	0	Version 0
Agency (Dec):	0	Unknown agency: 0
Serial Number (Dec):	0	0 (Dec) = 0000000 (Hex)
Hash (Hex):	0000	Hash needs EPC, TID, and Hash Key
Correct Hash (Hex):	0000	0000
Correct CRC (Hex):	00	00
Encode		

New EPC

- Click on the “Decode and Verify” button, the app will automatically check for the TOC version, Classifications, serial numbers, CRC (if any) and Hash as per the 6CTOC specification.

EPC		
3E0000001306503C3E720000		
TID		
E280382120006426011F8529		
Hash Key		
Copy from One Tag		
Decode and Verify		
DFSID (Hex):	3E	0x3E (Valid DFSID for TOC)
CRC (Hex):	00	CRC not applicable for TOC Version 3
Agency Use (Bin):	000000000000	Agency Use: 13 bits (TOC Version 3)
Classification		
Use Classification (Bin):	0	Not in use (Ignore vehicle fields)
Vehicle Type (Bin):	00000	Undefined
Vehicle Axles (Dec):	0	Undefined
Vehicle Weight (Bin):	0	Up to 7,000 lbs
Vehicle Rear Tires (Bin):	0	Single rear tires
HOV (Dec):	1	SOV (Non-carpool)
TOC Version (Dec):	3	Version 3
Agency (Dec):	101	Bay Area Toll Authority (BATA)
Serial Number (Dec):	3948146	3948146 (Dec) = 03C3E72 (Hex)
Hash (Hex):	0000	Hash needs EPC, TID, and Hash Key
Correct Hash (Hex):	0000	0000
Correct CRC (Hex):	00	00
Encode		

New EPC

4. Download USB Driver

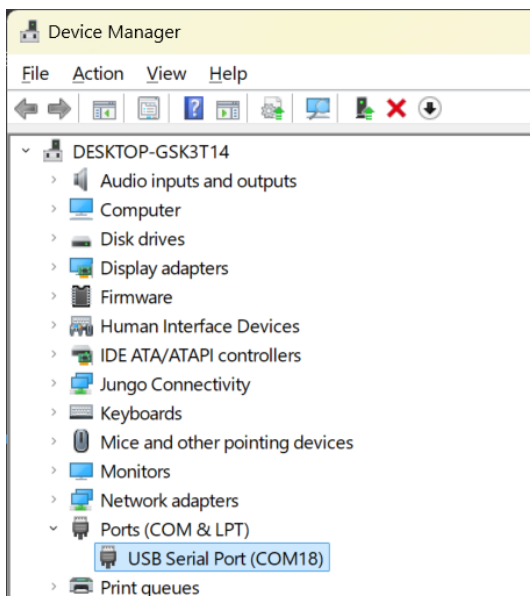
The SSI ATLAS RFID Desktop reader uses the FTDI, FT232 chip set.

The Driver for Windows can be download from the FTDI web page:

<https://ftdichip.com/products/ft232rng/>

Please download the latest version of the driver for your Operating System and install the driver by following the instructions with the download packet.

One can check the status of the driver with MS Device Manager (Search Device Manager in Search bar in Windows)



Warranty

WARRANTY

All Hardware Products sold by STAR Systems International Limited (SSI) are warranted against defects in material and workmanship under normal use and service for one (1) year from the original date of purchase (the "Warranty"). All batteries that are purchased as part of a reader or package are covered by a six (6) months warranty. Any Extended Warranties must be documented on the original invoice. For defects covered by Warranty, SSI will repair or replace the product, at its sole option, and return it.

EXCLUSIONS

The following are not covered by warranty: abuse, mishandling, acts of God, vandalism, over-voltage, accident, electrostatic discharge damage, failure to follow installation or operating instructions, failure to provide a suitable environment, unauthorized modification of the product, modification of the printed circuit board by parties other than SSI, damage that is caused during shipping for warranty service and any product that is returned with the warranty security seal broken.

RMA PROCEDURE

For products covered by this Warranty, Customers are responsible for payment of shipping costs to the STAR Systems International's designated repair center. STAR Systems International Limited will be responsible for the cost of returning the item in the by its standard shipping method. Any other desired expedited or overnight shipping method's costs will be the customer's responsibility and costs. If this product is returned under this limited warranty, a return authorization form, obtained from the SSI's support department shall be required (RMA number will also be assigned). The Customer may also be directed to an authorized third party by SSI for final repair the product.

If it is decided that this product should be returned directly to SSI or its authorized party, this product must be properly packaged and protected, preferably in the original carton, for shipping. Cartons not bearing a physical return authorization form may be refused receipt and returned at the shipper's costs.

DISCLAIMER OF WARRANTIES

OTHER THAN SET FORTH ABOVE, SSI HEREBY DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.

LIMITATION OF LIABILITY

IN NO EVENT WILL SSI BE LIABLE FOR ANY CONSEQUENTIAL, INDIRECT, EXEMPLARY, SPECIAL, OR PUNITIVE DAMAGES, WHETHER ARISING OUT OF CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE. IN NO EVENT WILL STAR SYSTEMS INTERNATIONAL'S TOTAL CUMULATIVE, AGGREGATE LIABILITY, WHETHER ARISING OUT OF CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, EXCEED THE PRICE ACTUALLY PAID BY THE CUSTOMER FOR THE PRODUCT FROM WHICH THE CLAIM ARISES.

This warranty gives Customer specific legal rights, and Customer may also have other rights that may vary from local jurisdiction. If Customer has questions concerning the product or warranty, contact the dealer from which it was purchased. Customer may also contact STAR Systems at the following address and ask for warranty assistance.

FCC Statements

This device complies with Part 15 of the FCC Rules. Operation 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio

communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.-- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Federal Communication Commission (FCC) Radiation Exposure Statement When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



ABOUT US

Founded in 2013, STAR Systems International is a global leader in Automatic Vehicle Identification (AVI) Technologies. Our primary focus is to deliver best-in-class transponders, readers, and professional consulting services for Smart City Initiatives. Our expertise lies in a wide range of applications, including Electronic Tolling (ETC), Congestion/Road Use Charging, Electronic Vehicle Registration (EVR), Express/HOT Lane, Fleet Management, Parking, and Secure Access Control.

At STAR Systems, we are driven by a customer-centric approach. Our goal is to ensure the success of our customers by leveraging our technical expertise and implementation experience. Guided by three core principles - Outstanding People, Innovative Products, and Service Excellence - we strive to advance Smart City Technologies and contribute to the long-term growth of the AVI industry.

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STAR Systems America, LLC (U.S.A.)
STAR RFID & Systems India Pvt Ltd. (India)
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